



# CIEL SOLUTION

EVERYDAY INNOVATION  
CIELLIGHT

IC반도체 · 다이오드 · 터미널블럭 · 센서 · LED · FND · SMPS · LED조명 · 컨트롤러



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# Greeting

**항상 고객만족을 목표로 최선을 다하는  
(주)씨엘라이트가 되도록 노력 하겠습니다.**

(주)씨엘라이트는 LED, FND사업과 반도체 분야에 역량을 다하기 위해 고객의 요구사항에 맞는 맞춤형 솔루션 개발, 통합구매, 제조, 생산까지 가능한 토탈솔루션으로 고객의 만족을 위해 항상 노력하고 있습니다.

앞으로도 저희 (주)씨엘라이트에서는 보다 신속하고, 신뢰성있는 제품을 국내 최저단가와 최고의 품질로 공급해 드릴 수 있도록 고객님께 약속 드리며 항상 최선을 다하는 모범 기업이 되도록 노력하겠습니다.

감사합니다.



황정훈  
(주)씨엘라이트 대표이사

# History

- 1996. 03. 중국BLK 이스트 본사 및 공장 설립
- 1996. 06. 한국 이스트 지점 및 R&D센터 설립
- 2003. 05. 천안 LED공장 설립
- 2004. 11. 본점 이전 및 씨엘라이트 상표 등록 및 독립 브랜드 형성
- 2007. 12. 가산동공장 R&D사업부 확장 이전
- 2008. 03. 화성SMT, ASS'Y 사업부 설립(컨트롤러, 채널싸인, LED조명등)
- 2008. 07. 구로 중앙유통단지 내 매장 설립
- 2010. 07. 가산동공장 R&D사업부 내 독립 자동화 R&D센터 아이나노시스템 형성
- 2010. 11. 중국 WANJIE CO.,LTD. 한국총판지사 체결 (터미널블럭)
- 2013. 10. 구로공장 설립
- 2013. 12. 가이아테크 다이오드 신규 사업 설립
- 2014. 02. 반도체 전자부품 & 턴키 사업부 설립
- 2014. 04. 제품 디자인 및 설계 개발 사업팀 설립
- 2014. 10. 루데아 의료기기 사업부 설립



특허증 (LED 조명 제어장치 및 제어방법)



벤처기업확인서



연구개발전담부서 인정서



직접생산확인 증명서



ISO 14001 (환경경영 시스템 인증)



ISO 9001 (품질경영 시스템 인증)

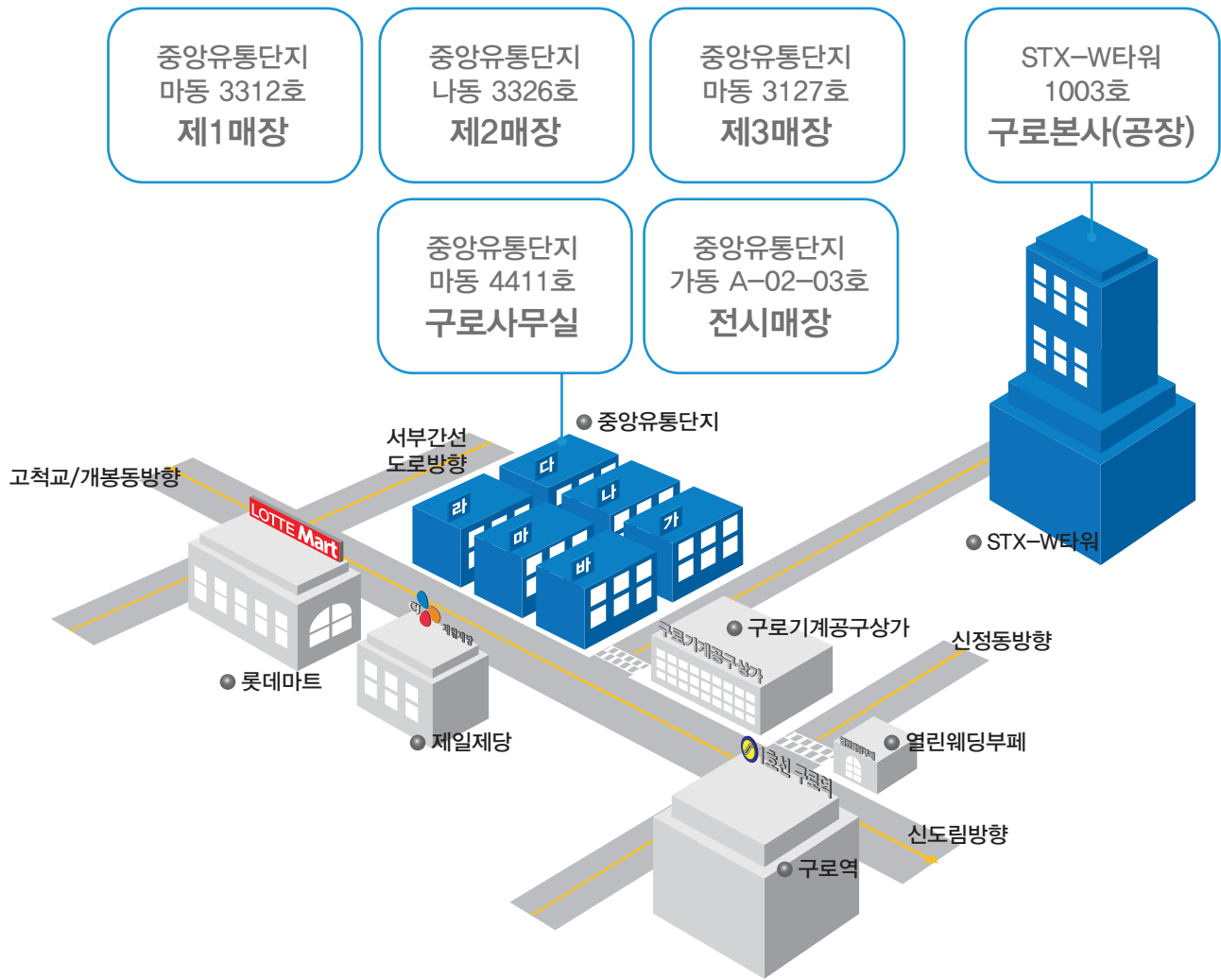


경영혁신형 중소기업 확인서



기술혁신형 중소기업 확인서

# Rough map



항상 고객만족을 목표로 최선을 다하는  
(주)씨엘라이트가 되도록 노력 하겠습니다.

## 취급 제품 유형 PACKAGE TYPES

DIP - 4PIN



DIP - 16PIN



SOP - 8PIN



SOP-14PIN



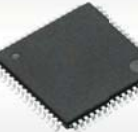
SSOP



TSSOP



TQFP



TO - 92



TO - 220



TO-252-3



DPACK



D2PACK



SOT-223



SOT-23



SOT-89























TO - 3



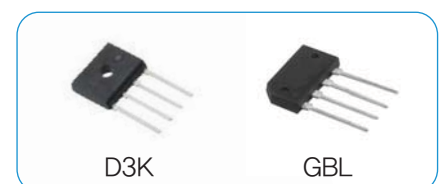
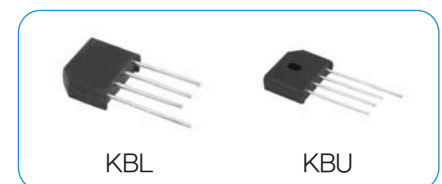
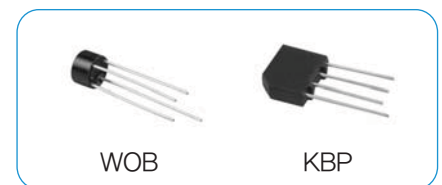
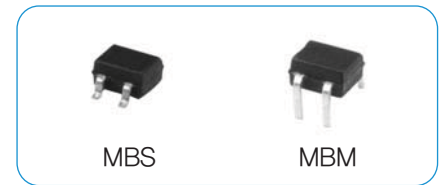
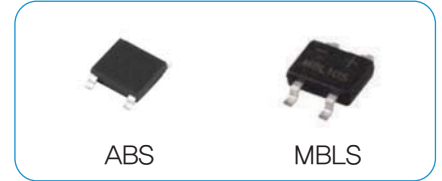
반도체 및 기타 전자부품 국내 유통 및 아시아, 유럽, 미주등 제휴업체의 SOURCING 전문기업

## 취급 벤더 제품 VENDOR – PRODUCT

				
<p>Analog IC Motor Controller IC AC-DC IC DC-DC Voltage Regulator IGBT &amp; FET</p>	<p>Serial EEPROM Parallel EEPROM OTP EPROM AVR 8 and 32 bit MCU</p>	<p>Clock and Timer Data Converter Logic IC Audio IC</p>	<p>IGBT &amp; MOSFET Analog &amp; Digital Switch Lighting IC Logic IC</p>	<p>Switching Regulator LDO Amplifiers &amp; Linear Data Converter</p>
				
<p>LYT Switch Link Switch Tiny Switch Top Switch</p>	<p>LED Driver IC OLED Driver IC LCD Driver IC PMIC</p>	<p>LDO Linear Regulator Motor Driver Automotive Switching Power supply Regulator</p>	<p>PhotoCoupler PhotoInterrupter PhotoDetector Analog IC</p>	<p>Motor Driver Driver IC SMPS Power IC Automatic Switch IC</p>
				
<p>AC-DC Controller &amp; Regulator DC-DC Controller, Converter &amp; Regulator Standard Logic IGBT &amp; FET</p>	<p>Clock &amp; Timer Interface Logic Amplifiers &amp; Linear</p>	<p>Logic Transistor ASICs / Structured Array Linear IC Memories / Storages Device</p>	<p>Clocks Generation &amp; Distribution Data Converter Automotive Amplifiers</p>	<p>Amplifiers &amp; Linear Clocks &amp; Timer Data Converter Logic IC</p>
				
<p>Optical Sensor PhotoCoupler Optic-Fiber Device Infrared LED Silicon Detector</p>	<p>Clock Generator Memory Switching Controller Switching Regulator MOSFET</p>	<p>Logic MOSFET Bipolar Transistor Amplifiers</p>	<p>Linear Logic Driver IC IGBT &amp; FET Transistor</p>	<p>Data Converter Motor Driver Amplifiers &amp; Linear Real-Time Clock</p>

## 브릿지 레กติ파이어 BRIDGE RECTIFIER

Type No.	Io (A)	V <sub>RM</sub> (V)	Package
ABS2 ~ ABS10	0.8/1.0	200~1000	ABS
ABSK12S~ABSK110S	1	20~100	ABS
ABSK22S~ABSK210S	2	20~100	ABS
MBL1S~MBL10S	0.8	100~1000	MBLS
MBLSK12S~MBLSK110S	1	20~100	MBLS
MB2S~MB10S	0.5/0.8	200~1000	MBS
MBSK12S~MBSK110S	1	20~100	MBS
MBSK22S~MBSK210S	2	20~100	MBS
MB2M~MB10M	0.5/0.8	200~1000	MBM
MBSK12M~MBSK110M	1.0	20~100	MBM
MBSK22M~MBSK210M	2.0	20~100	MBM
DB101/DF005~DB107/DF10	1.0	50~1000	DB
DB101S/DF005S~DB107S/DF10S	1.0	50~1000	DBS
DB101G~DB107G	1.0	50~1000	DB
DB151~DB157	1.5	50~1000	DB
DB151S~DB157S	1.5	50~1000	DBS
DB201~DB207	2.0	50~1000	DB
DB201S~DB207S	2.0	50~1000	DBS
W005~W10	1.0	50~1000	WOB
RB151~RB157	1.5	50~1000	WOB
2W005~2W10	2.0	50~1000	WOB
KBP2005~KBP210	2.0	50~1000	KBP
KBP2005G~KBP210G	2.0	50~1000	KBP
KBP3005~KBP310	3.0	50~1000	KBP
KBL4005~KBL410	4.0	50~1000	KBL
KBL6005~KBL610	6.0	50~1000	KBL
KBU4005~KBU410	4.0	50~1000	KBU
KBU6005~KBU610	6.0	50~1000	KBU
KBU8005~KBU810	8.0	50~1000	KBU
KBU10005~KBU1010	10.0	50~1000	KBU
KBU15005~KBU1510	15.0	50~1000	KBU
KBU25005~KBU2510	25.0	50~1000	KBU
D2UB05~D2UB100	2.0	50~1000	D3K
GBL2005~GBL210	2.0	50~1000	GBL
D3UB05~D3UB100	3.0	50~1000	D3K
GBL4005~GBL410	4.0	50~1000	GBL
D4UB05~D4UB100	4.0	50~1000	D3K
GBU4005~GBU410	4.0	50~1000	GBU
D6UB05~D6UB100	6.0	50~1000	D3K
GBU6005~GBU610	6.0	50~1000	GBU
D8UB05~D8UB100	8.0	50~1000	D3K
GBU8005~GBU810	8.0	50~1000	GBU
GBU10005~GBU1010	10.0	50~1000	GBU

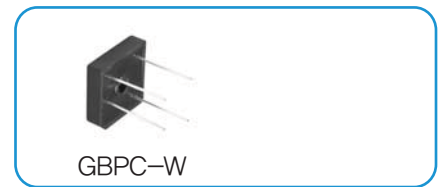
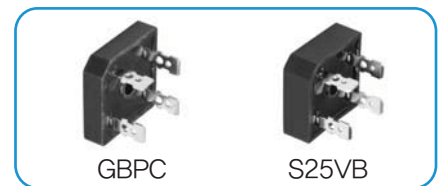
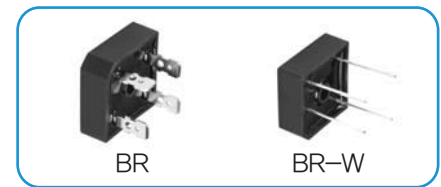
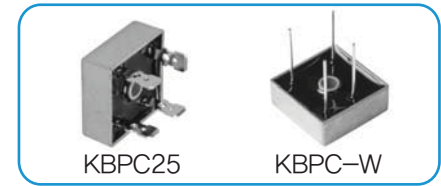
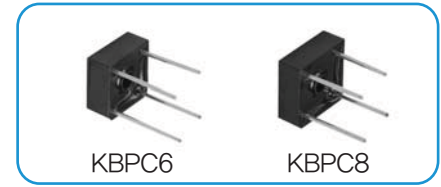
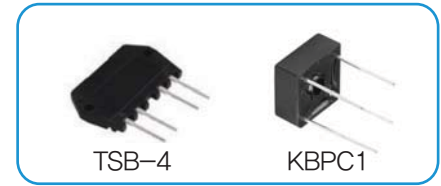
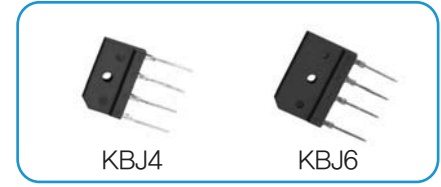
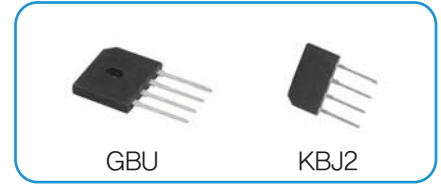




# 브릿지 레กติ파이어

## BRIDGE RECTIFIER

Type No.	Io (A)	V <sub>RM</sub> (V)	Package
GBU15005~GBU1510	15.0	50~1000	GBU
GBU25005~GBU2510	25.0	50~1000	GBU
GBJ2005~GBJ210	2.0	50~1000	KBJ2
KBJ4005~KBJ410	4.0	50~1000	KBJ4
KBJ6005~KBJ610	6.0	50~1000	KBJ4
KBJ10005~KBJ1010	10.0	50~1000	KBJ4
GBJ6005~GBJ610	6.0	50~1000	KBJ6
GBJ8005~GBJ810	8.0	50~1000	KBJ6
GBJ10005~GBJ1010	10.0	50~1000	KBJ6
GBJ15005~GBJ1510	15.0	50~1000	KBJ6
GBJ20005~GBJ2010	20.0	50~1000	KBJ6
GBJ25005~GBJ2510	25.0	50~1000	KBJ6
GBJ35005~GBJ3510	35.0	50~1000	KBJ6
DF35XB80~DF35XB160	35.0	800~1600	TSB-4
DF50XB80~DF50XB160	50.0	800~1600	TSB-4
KBPC1005~KBPC110	3.0	50~1000	KBPC1
KBPC6005~KBPC610	6.0	50~1000	KBPC6
KBPC8005~KBPC810	8.0	50~1000	KBPC8
KBPC10005~KBPC1010	10.0	50~1000	KBPC8
KBPC15005~KBPC1510	15.0	50~1000	KBPC25
KBPC25005~KBPC2510	25.0	50~1000	KBPC25
KBPC35005~KBPC3510	35.0	50~1000	KBPC25
KBPC5005~KBPC5010	50.0	50~1000	KBPC25
KBPC1501W~KBPC1510W	15.0	100~1000	KBPC-W
KBPC25005W~KBPC2510W	25.0	50~1000	KBPC-W
KBPC35005W~KBPC3510W	35.0	50~1000	KBPC-W
KBPC50005W~KBPC5010W	50.0	50~1000	KBPC-W
BR15005~BR1510	15.0	50~1000	BR
BR25005~BR2510	25.0	50~1000	BR
BR35005~BR3510	35.0	50~1000	BR
BR50005~BR5010	50.0	50~1000	BR
BR15005W~BR1510W	15.0	50~1000	BR-W
BR25005W~BR2510W	25.0	50~1000	BR-W
BR35005W~BR3510W	35.0	50~1000	BR-W
BR50005W~BR5010W	50.0	50~1000	BR-W
GBPC15005~GBPC1510	15.0	50~1000	GBPC
GBPC25005~GBPC2510	25.0	50~1000	GBPC
S25VB10~S25VB100	25.0	100~1000	S25VB
GBPC35005~GBPC3510	35.0	50~1000	GBPC
GBPC50005~GBPC5010	50.0	50~1000	GBPC
GBPC15005W~GBPC1510W	15.0	50~1000	GBPC-W
GBPC25005W~GBPC2510W	25.0	50~1000	GBPC-W
GBPC35005W~GBPC3510W	35.0	50~1000	GBPC-W
GBPC50005W~GBPC5010W	50.0	50~1000	GBPC-W

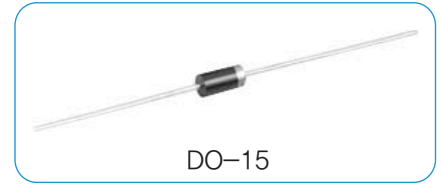
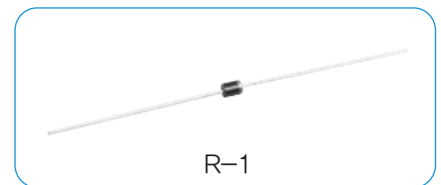
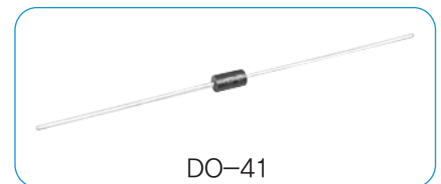
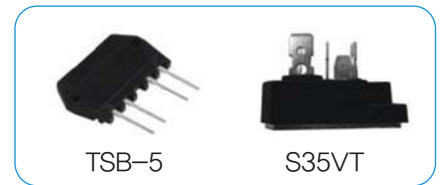


## 브릿지 레กติ파이어 BRIDGE RECTIFIER

Type No.	Io (A)	V <sub>RM</sub> (V)	Package
BR15005L~BR1510L	15.0	50~1000	BR-L
BR25005L~BR2510L	25.0	50~1000	BR-L
BR35005L~BR3510L	35.0	50~1000	BR-L
BR50005L~BR5010L	50.0	50~1000	BR-L
SKBPC25005~SKBPC2516	25.0	50~1600	SKBPC
SKBPC35005~SKBPC3516	35.0	50~1600	SKBPC
DF25NA80~DF25NA160	25.0	800~1600	TSB-5
DF35NA80~DF35NA160	35.0	800~1600	TSB-5
S35VT40~S35VT160	35.0	400~1600	S35VT
MDQ75-08~18	75	800~1600	MDQ75
MDS75-08~18	75	800~1600	MDS75
MDC100-02~16	100	200~1600	MDC100
MDQ100-08~18	100	800~1800	MDQ100
MDS100-08~18	100	800~1800	MDS100
MDQ150-08~18	150	800~1800	MDQ150
MDS150-08~18	150	800~1800	MDS150
MDC150-02~16	150	200~1600	MDC150
MDQ200-08~18	200	800~1800	MDQ200
MDS200-08~18	200	800~1800	MDS200
MDS300-08~18	300	800~1800	MDS300

## 쇼트키 다이오드 SCHOTTKY DIODE

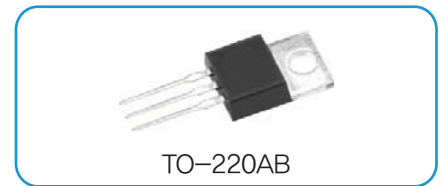
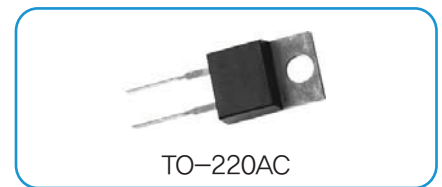
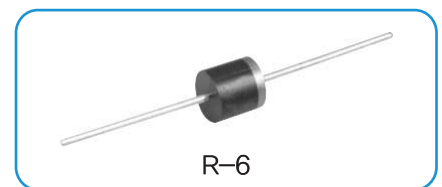
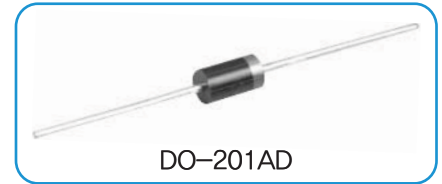
Type No.	Io (A)	V <sub>RM</sub> (V)	V <sub>F</sub> (V)	Package
SR020~SR040	0.5	20~40	0.55	DO-41
SR050~SR060	0.5	50~60	0.7	DO-41
SR090~SR0100	0.5	90~100	0.85	DO-41
1S20~1S40	1	20~40	0.55	R-1
1S50~1S60	1	50~60	0.7	R-1
1S80~1S100	1	80~100	0.8	R-1
1N5817	1	20	0.45	DO-41
1N5818	1	30	0.55	DO-41
1N5819	1	40	0.6	DO-41
SR120~SR140	1	20~40	0.55	DO-41
SR150~SR160	1	50~60	0.7	DO-41
SR180~SR1100	1	80~100	0.8	DO-41
SR220~SR240	2	20~40	0.55	DO-15
SR250~SR260	2	50~60	0.7	DO-15
SR280~SR2200	2	80~200	0.85	DO-15
1N5820	3	20	0.475	DO-201AD
1N5821	3	30	0.5	DO-201AD
1N5822	3	40	0.525	DO-201AD
SR320~SR340	3	20~40	0.55	DO-201AD
SR350~SR360	3	50~60	0.7	DO-201AD



## 쇼트키 다이오드

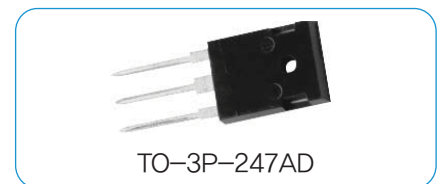
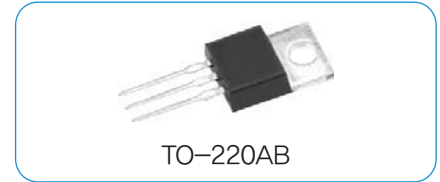
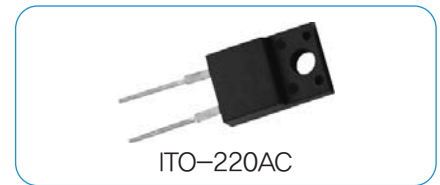
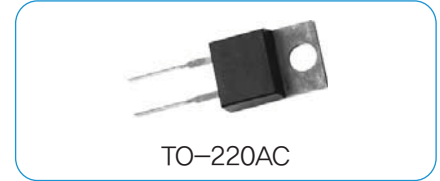
### SCHOTTKY DIODE

Type No.	$I_o$ (A)	$V_{RM}$ (V)	$V_F$ (V)	Package
SR380~SR3200	3	80~200	0.85	DO-201AD
SR520~SR540	5	20~40	0.55	DO-201AD
SR550~SR560	5	50~60	0.7	DO-201AD
SR580~SR5200	5	80~200	0.85	DO-201AD
SR820~SR840	8	20~40	0.55	DO-201AD
SR850~SR860	8	50~60	0.7	DO-201AD
SR880~SR8200	8	80~200	0.85	DO-201AD
SB1240	12	40	0.5	DO-201AD/R-6
10SQ030~10SQ035	10	30~35	0.55	R-6
10SQ040~10SQ060	10	40~60	0.7	R-6
10SQ080~10SQ100	10	80~100	0.8	R-6
15SQ045	15	45	0.5	R-6
MBR820~MBR840	8	20~40	0.6	TO-220AC
MBR850~MBR860	8	50~60	0.75	TO-220AC
MBR880~MBR8100	8	80~100	0.85	TO-220AC
MBR8150~MBR8200	8	150~200	0.9	TO-220AC
MBR1020~MBR1040	10	20~40	0.55	TO-220AC
MBR1050~MBR1060	10	50~60	0.7	TO-220AC
MBR1080~MBR10100	10	80~100	0.88	TO-220AC
MBR10150~MBR10200	10	150~200	0.9	TO-220AC
MBR1020CT~MBR1045CT	10	20~45	0.65	TO-220AB
MBR1050CT~MBR1060CT	10	50~60	0.75	TO-220AB
MBR1080CT~MBR10100CT	10	80~100	0.8	TO-220AB
MBR10150CT~MBR10200CT	10	150~200	0.9	TO-220AB
MBR1035F~MBR1045F	10	35~45	0.7	ITO-220AC
MBR1050F~MBR1060F	10	50~60	0.8	ITO-220AC
MBR1090F~MBR10100F	10	90~100	0.85	ITO-220AC
MBR10150F~MBR10200F	10	150~200	1.05	ITO-220AC
MBRF1035CT~MBRF1045CT	10	35~45	0.7	ITO-220AB
MBR1035FCT~MBR1040FCT	10	35~45	0.7	ITO-220AB
MBR1050FCT~MBR1060FCT	10	50~60	0.8	ITO-220AB
MBR1090FCT~MBR10100FCT	10	90~100	0.85	ITO-220AB
MBR10150FCT~MBR10200FCT	10	150~200	1.05	ITO-220AB
MBR1530CT~MBR1545CT	15	30~45	0.65	TO-220AB
MBR1550CT~MBR1560CT	15	50~60	0.75	TO-220AB
MBR1590CT~MBR15100CT	15	90~100	0.95	TO-220AB
MBR15150CT~MBR15120CT	15	150~200	1.02	TO-220AB
MBR1535FCT~MBR1545FCT	15	35~45	0.7	ITO-220AB
MBR1550FCT~MBR1560FCT	15	50~60	0.75	ITO-220AB
MBR1590FCT~MBR15100FCT	15	90~100	0.9	ITO-220AB
MBR15150FCT~MBR15200FCT	15	150~200	0.95	ITO-220AB
MBR1635~MBR1645	16	35~45	0.55	TO-220AC
MBR1650	16	50	0.75	TO-220AC
MBR1660	16	60	0.7	TO-220AC



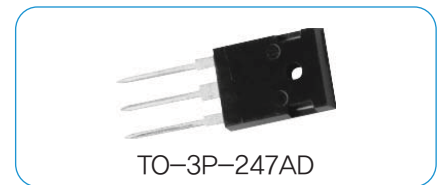
## 쇼트키 다이오드 SCHOTTKY DIODE

Type No.	Io (A)	VRM (V)	VF (V)	Package
MBR1690~MBR16100	16	90~100	0.9	TO-220AC
MBR16150~MBR16200	16	150~200	1	TO-220AC
MBR1635F~MBR1645F	16	35~45	0.63	ITO-220AC
MBR1650F~MBR1660F	16	50~60	0.75	ITO-220AC
MBR1690F~MBR16100F	16	90~100	0.85	ITO-220AC
MBR16150F~MBR16200F	16	150~200	0.95	ITO-220AC
GB1645LA	16	45	0.55	TO-220AC
GF1645MA	16	45	0.55	TO-263
MBR2035CT~MBR2045CT	20	35~45	0.84	TO-220AB
MBR2050CT~MBR2060CT	20	50~60	0.8	TO-220AB
MBR2090CT~MBR20100CT	20	90~100	0.85	TO-220AB
MBR20150CT	20	150	0.99	TO-220AB
MBR20200CT	20	200	1.02	TO-220AB
MBR2035F~MBR2045F	20	35~45	0.75	ITO-220AC
MBR2050F~MBR2060F	20	50~60	0.85	ITO-220AC
MBR2090F~MBR20100F	20	90~100	0.95	ITO-220AC
MBR20150F~MBR20200F	20	150~200	10.20	ITO-220AC
MBR2035FCT~MBR2045FCT	20	35~45	0.75	ITO-220AB
MBR2050FCT~MBR2060FCT	20	50~60	0.88	ITO-220AB
MBR2090FCT~MBR20100FCT	20	90~100	0.95	ITO-220AB
MBR20150FCT~MBR20200FCT	20	150~200	1.02	ITO-220AB
MBR2035PT~MBR2045PT	20	35~45	0.84	TO-3P/TO-247AD
MBR2050PT~MBR2060PT	20	50~60	0.8	TO-3P/TO-247AD
MBR2090PT~MBR20100PT	20	90~100	0.85	TO-3P/TO-247AD
MBR20150PT	20	150	0.95	TO-3P/TO-247AD
MBR20200PT	20	200	1.02	TO-3P/TO-247AD
MBR2535FCT~MBR2545FCT	25	35~45	0.75	ITO-220AB
MBR2550FCT~MBR2560FCT	25	50~60	0.85	ITO-220AB
MBR2590FCT	25	90	0.95	ITO-220AB
MBR25100FCT	25	100	0.95	ITO-220AB
MBR25150FCT~MBR25200FCT	25	150~200	1.02	ITO-220AB
GF2545LC	25	45	0.55	TO-220AC
GF2545MC	25	45	0.55	TO-263
MBR25100CT	25	100	0.85	TO-220AB
MBR25150CT~MBR25200CT	25	150~00	0.95	TO-220AB
MBR2535FCT~MBR2545FCT	25	35~45	0.75	ITO-220AB
MBR2550FCT~MBR2560FCT	25	50~60	0.85	ITO-220AB
MBR2590FCT~MBR25100FCT	25	90~100	0.95	ITO-220AB
MBR25150FCT~MBR25200FCT	25	150~200	1.02	ITO-220AB
MBR3035CT~MBR3045CT	30	35~45	0.7	TO-220AB
MBR3050CT~MBR3060CT	30	50~60	0.8	TO-220AB
MBR3080CT~MBR30100CT	30	80~100	0.95	TO-220AB
MBR30150CT~MBR30200CT	30	150~200	1.02	TO-220AB
MBR3030FCT~MBR3040FCT	30	35~45	0.7	ITO-220AB



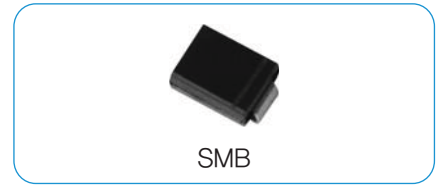
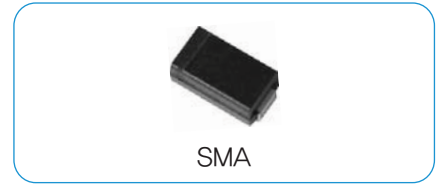
## 쇼트키 다이오드 SCHOTTKY DIODE

Type No.	Io (A)	V <sub>RM</sub> (V)	V <sub>F</sub> (V)	Package
MBR3050FCT~MBR3060FCT	30	50~60	0.75	ITO-220AB
MBR3090FCT~MBR30100FCT	30	90~100	0.85	ITO-220AB
MBR30150FCT~MBR30200FCT	30	150~200	0.95	ITO-220AB
MBR3035PT~MBR3045PT	30	35~45	0.82	TO-3P/TO-247AD
MBR3050PT~MBR3060PT	30	50~60	0.75	TO-3P/TO-247AD
MBR3090PT~MBR30100PT	30	90~100	0.85	TO-3P/TO-247AD
MBR30150PT~MBR30200PT	30	150~200	0.95	TO-3P/TO-247AD
MBR4035PT~MBR4045PT	40	35~45	0.75	TO-3P/TO-247AD
MBR4050PT~MBR4060PT	40	50~60	0.77	TO-3P/TO-247AD
MBR4090PT~MBR40100PT	40	90~100	0.84	TO-3P/TO-247AD
MBR40150PT~MBR40200PT	40	150~200	0.95	TO-3P/TO-247AD
LL5817	1	20	0.45	MELF
LL5818	1	30	0.55	MELF
LL5819	1	40	0.6	MELF
LSR120~LSR140	1	20~40	0.55	MELF
LSR150~LSR160	1	50~60	0.7	MELF
S12~S14	1	20~40	0.5	SOD-123FL
S15~S16	1	50~60	0.7	SOD-123FL
S18~S110	1	80~100	0.85	SOD-123FL
S150~S120	1	150~200	0.9	SOD-123FL
SS12~SS14	1	20~40	0.5	SMA-W
SS15~SS16	1	50~60	0.75	SMA-W
SS12A~SS14A	1	20~40	0.5	SMA
SS15A~SS16A	1	50~60	0.75	SMA
SS18A~SS110A	1	80~100	0.85	SMA
SS115A~SS120A	1	150~200	0.9	SMA
SS22A~SS24A	2	20~40	0.5	SMA
SS25A~SS26A	2	50~60	0.7	SMA
SS28A~SS210A	2	80~100	0.85	SMA
SS215A~SS220A	2	150~200	0.9	SMA
S22F~S24F	2	20~40	0.5	SMAF
S25F~S26F	2	50~60	0.7	SMAF
S28F~S210F	2	80~100	0.85	SMAF
S215F~S220F	2	150~200	0.9	SMAF
SS22~SS24	2	20~40	0.5	SMB
SS25~SS26	2	50~60	0.7	SMB
SS28~SS210	2	80~100	0.85	SMB
SS215~SS220	2	150~200	0.9	SMB
S32F~S34F	3	20~40	0.5	SMAF
S35F~S36F	3	50~60	0.7	SMAF
S38F~S310F	3	80~100	0.85	SMAF
S315F~S320F	3	150~200	0.9	SMAF
SS32~SS34	3	20~40	0.5	SMC
SS35~SS36	3	50~60	0.7	SMC



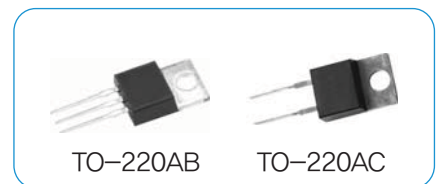
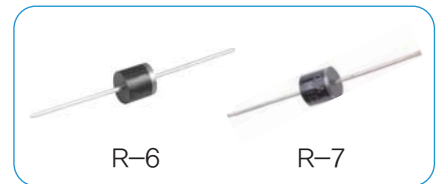
## 쇼트키 다이오드 SCHOTTKY DIODE

Type No.	Io (A)	V <sub>RM</sub> (V)	V <sub>F</sub> (V)	Package
SS38~SS310	3	80~100	0.85	SMC
SS315~SS320	3	150~200	0.9	SMC
SS32A~SS34A	3	20~60	0.5	SMA
SS35A~SS36A	3	50~60	0.7	SMA
SS38A~SS310A	3	80~100	0.85	SMA
SS315A~SS320A	3	150~200	0.9	SMA
SS32B~SS34B	3	20~40	0.5	SMB
SS35B~SS36B	3	50~60	0.7	SMB
SS308B~SS310B	3	80~100	0.85	SMB
SS315B~SS320B	3	150~200	0.9	SMB
SS52B~SS53B	5	20~30	0.55	SMB
SS54B	5	40	0.6	SMB
SS55B~SS56B	5	50~60	0.7	SMB
SS58B~SS510B	5	80~100	0.85	SMB
SS515B~SS520B	5	150~200	0.9	SMB
SS52~SS54	5	20~40	0.55	SMC
SS55~SS56	5	50~60	0.75	SMC
SS58~SS510	5	80~100	0.85	SMC
SS515~SS520	5	150~200	0.9	SMC
SS5U45	5	45	0.5	TO-277
SS10U45	10	45	0.47	TO-277
SS15U45	15	45	0.46	TO-277



## 피브이 다이오드 PV DIODE

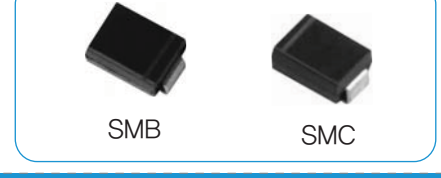
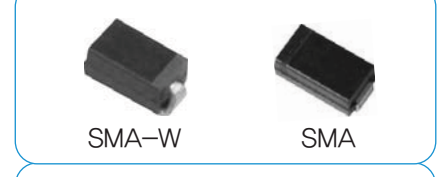
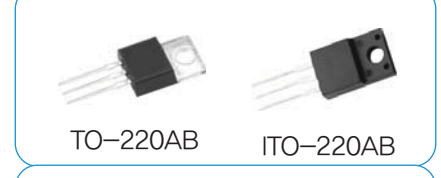
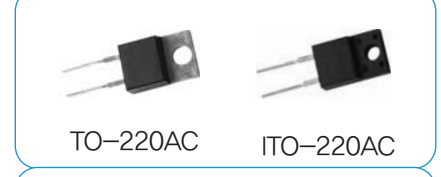
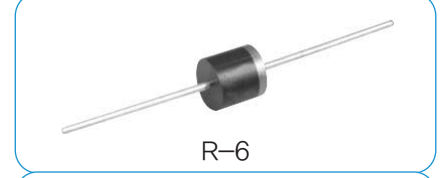
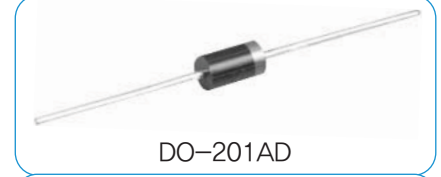
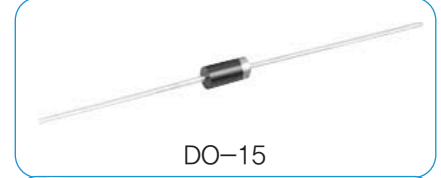
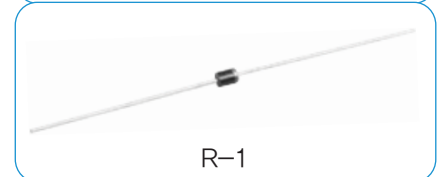
Type No.	Io (A)	V <sub>RM</sub> (V)	V <sub>F</sub> (V)	Package
10SQ030~10SQ035	10	30~35	0.55	R-6
10SQ040~10SQ060	10	40~60	0.7	R-6
10SQ080~10SQ100	10	80~100	0.8	R-6
12SQ040~12SQ04	12	40~45	0.55	R-6
15SQ045	15	45	0.5	R-6
20SQ040~20SQ045	20	40~45	0.55	R-6
20SQ040	20	40	0.55	R-7
GF1640LAF	16	40	0.5	ITO-220AC
GF1640MC	16	40	0.5	TO-263
GF1645LA	16	45	0.5	TO-263
GF1645MA	16	45	0.5	TO-220AB
GF2045MG	20	45	0.55	TO-263
GF2045LA	20	45	0.55	TO-220AC
GF2045LG	20	45	0.55	TO-220AC
GF2545MG	25	45	0.55	TO-263
GF2545MC	25	45	0.55	TO-263
GF2545LC	25	45	0.55	TO-220AC
GF3045LA	30	45	0.55	TO-220AC
GF3045MG	30	45	0.55	TO-263
GFS1845A	18	45	0.45	GF004
GFS1845B	18	45	0.52	GF004
GF2045	20	45	0.5	GF004





## 슈퍼 패스트 다이오드 SUPER FAST DIODE

Type No.	Io (A)	VRM (V)	TRR (ns)	Package
1S1~1S8	1	50~600	35	R-1
1S1G~1S8G	1	50~600	35	R-1
SF11S~SF18S	1	50~600	35	A-405
SF11GS~SF18GS	1	50~600	35	A-405
SF11~SF18	1	50~600	35	DO-41
SF21~SF28	2	50~600	35	DO-15
SF21G~SF28G	2	50~600	35	DO-15
SF31~SF38	3	50~600	35	DO-201AD
SF31G~SF38G	3	50~600	35	DO-201AD
MUR460	4	600	50	DO-201AD
MUR560	5	600	50	DO-201AD
SF51~SF58	5	50~600	35	DO-201AD
SF51G~SF58G	5	50~600	35	DO-201AD
SF61~SF68	6	50~600	35	DO-201AD
SF61G~SF68G	6	50~600	35	R-6
E1A~E1K	1	50~800	35	SOD-123FL
E1AF~E1KF	1	50~800	35	SMAF
E2AF~E2KF	2	50~800	35	SMAF
MUR810~MUR820	8	100~200	35	TO-220AC
MUR840~MUR860	8	400~600	50	TO-220AC
MUR810F~MUR820F	8	100~200	35	ITO-220AC
MUR840F~MUR860F	8	400~600	50	ITO-220AC
MUR1010~MUR1020	10	100~200	35	TO-220AC
MUR1040~MUR1060	10	400~600	50	TO-220AC
MUR1010CT~MUR1020CT	10	100~200	35	TO-220AB
MUR1040CT~MUR1060CT	10	400~600	50	TO-220AB
MURF1010CT~MURF1020CT	10	100~200	35	ITO-220AB
MURF1040CT~MURF1060CT	10	400~600	50	ITO-220AB
MURF1010~MURF1020	10	100~200	35	ITO-220AC
MURF1040~MURF1060	10	400~600	50	ITO-220AC
MUR1610CT~MUR1620CT	16	100~200	35	TO-220AB
MUR1640CT~MUR1660CT	16	400~600	50	TO-220AB
MURF1610CT~MURF1620CT	16	100~200	35	ITO-220AB
MURF1640CT~MURF1660CT	16	400~600	50	ITO-220AB
MUR2010CT~MUR2020CT	20	100~200	35	TO-220AB
MUR2040CT~MUR2060CT	20	400~600	50	TO-220AB
MURF2010CT~MURF2020CT	20	100~200	35	ITO-220AB
MURF2040CT~MURF2060CT	20	400~600	50	ITO-220AB
MURF2010~MURF2020	20	100~200	35	ITO-220AC
MURF2040~MURF2060	20	400~600	50	ITO-220AC
ES1AW~ES1JW	1	50~600	35	SMA-W
ES1A~ES1J	1	50~600	85	SMA
ES2AA~ES2JA	2	50~600	35	SMA
ES2A~ES2J	2	50~600	35	SMB
ES3AB~ES3JB	3	50~600	35	SMB
ES3A~ES3J	3	50~600	35	SMC
ES5A~ES5J	5	50~600	47	SMC

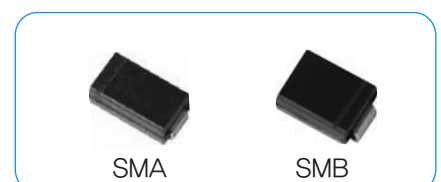
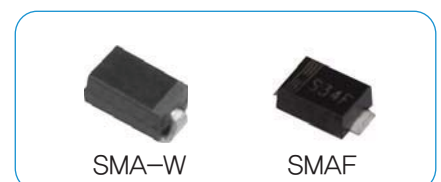
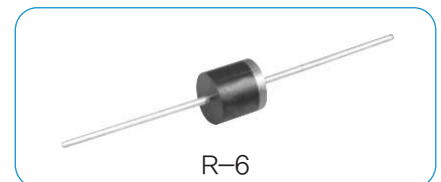
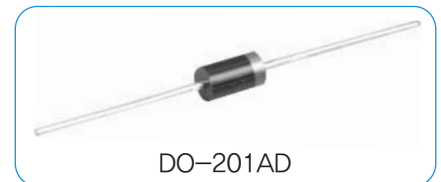
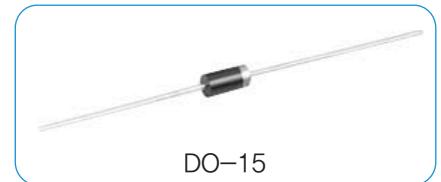
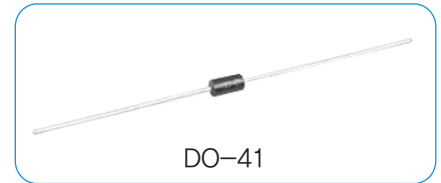
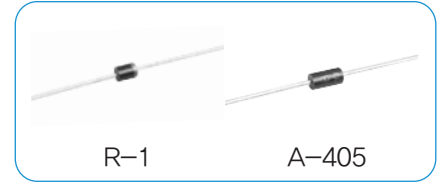
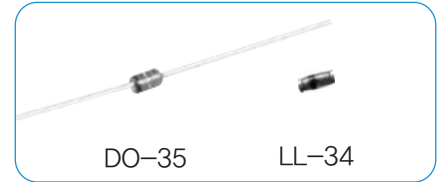


## 스몰 시그널 다이오드 SMALL SIGNAL DIODE

Type No.	Ifms (mA)	V <sub>RM</sub> (V)	Package
1N60	150	40	DO-35
1N60P	400	40	DO-35
LL60	150	40	LL-34
LL60P	400	40	LL-34
BAT45	60	15	DO-35
BAT85	600	30	DO-35

## 제네럴 펄퍼스 다이오드 GENERAL PURPOSE DIODE

Type No.	I <sub>o</sub> (A)	V <sub>RM</sub> (V)	Package
1A1~1A7	1	50~1000	R-1
1A1G~1A7G	1	50~1000	R-1
1N4001S~1N4007S	1	50~1000	A-405
1N4001GS~1N4007GS	1	50~1000	A-405
1N4001~1N4007	1	50~1000	DO-41
1N4001G~1N4007G	1	50~1000	DO-41
1N5391S~1N5399S	1.5	50~1000	DO-41
1N5391G~1N5399G	1.5	50~1000	DO-15
1N5391~1N5399	1.5	50~1000	DO-15
RL201~RL207	2	50~1000	DO-15
RL201G~RL207G	2	50~1000	DO-15
RL251~RL257	2.5	50~1000	DO-15
RL251G~RL257G	2.5	50~1000	DO-15
1N5400~1N5408	3	50~1000	DO-201AD
1N5400G~1N5408G	3	50~1000	DO-201AD
BY251~BY255	3	200~1300	DO-201AD
BY251G~BY255G	3	200~1300	DO-201AD
P6A05~P6A10	6	50~1000	R-6
P6A05G~P6A10G	6	50~1000	R-6
10A05~10A10	10	50~1000	R-6
10A05G~10A10G	10	50~1000	R-6
LL4001~LL4007	1	50~1000	MELF
G07A~G07M	0.7	50~1000	SOD-123FL
G1A~G1M	1	50~1000	SOD-123FL
G15A~G15M	1.5	50~1000	SOD-123FL
G1AF~G1MF	1	50~1000	SMAF
G2AF~G2MF	2	50~1000	SMAF
M1~M7	1	50~1000	SMA-W
M1G~M7G	1	50~1000	SMA-W
GS1A~GS1M	1	50~1000	SMA
GS2AA~GS2MA	2	50~1000	SMA
GS2A~GS2M	2	50~1000	SMB
GS3AB~GS3MB	3	50~1000	SMB
GS3A~GS3M	3	50~1000	SMC
GS5A~GS5M	5	50~1000	SMC

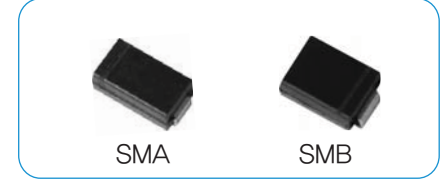
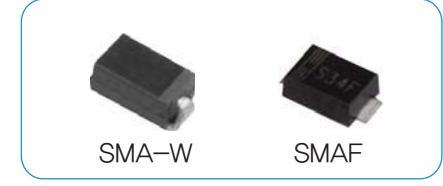
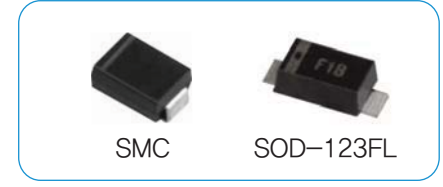
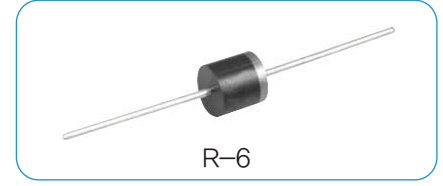
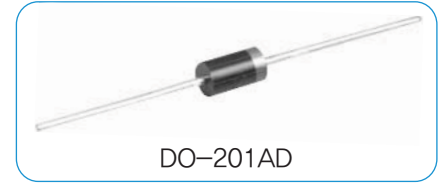
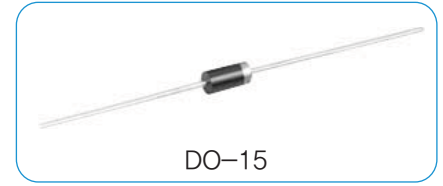
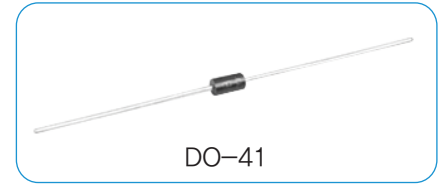
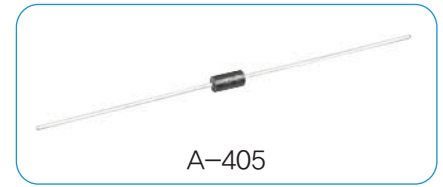
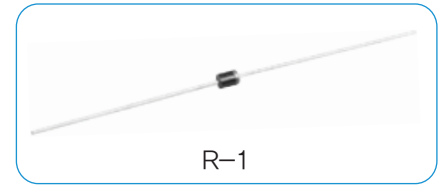




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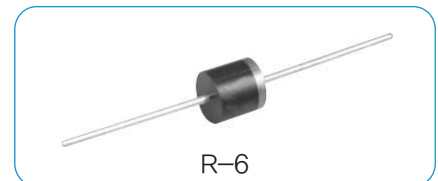
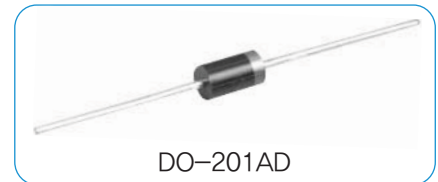
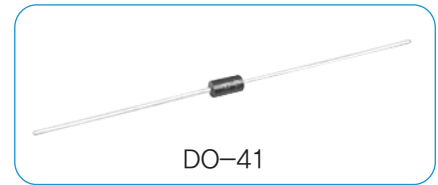
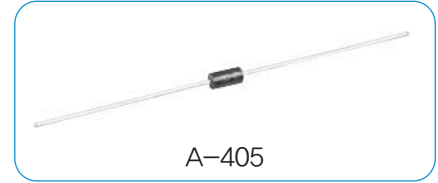
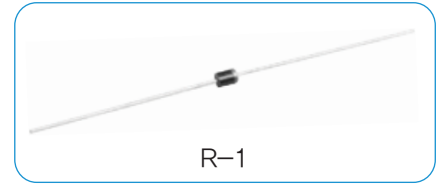
## HIGH EFFICIENT DIODE

Type No.	Io (A)	V <sub>RM</sub> (V)	T <sub>RR</sub> (ns)	Package
1H1~1H5	1	50~400	50	R-1
1H6~1H8	1	600~1000	75	R-1
1H1G~1H5G	1	50~400	50	R-1
1H6G~1H8G	1	600~1000	75	R-1
HER101S~HER105S	1	50~400	50	A-405
HER106S~HER108S	1	600~1000	75	A-405
HER101GS~HER105GS	1	50~400	50	A-405
HER106GS~HER108GS	1	600~1000	75	A-405
HER101~HER105	1	50~400	50	DO-41
HER106~HER108	1	600~1000	75	DO-41
HER101G~HER105G	1	50~400	50	DO-41
HER106G~HER108G	1	600~800	75	DO-41
UF4001~UF4004	1	50~400	50	DO-41
UF4005~UF4007	1	600~1000	75	DO-41
HER151~HER155	1.5	50~400	50	DO-15
HER156~HER158	1.5	600~1000	75	DO-15
HER151G~HER155G	1.5	50~400	50	DO-15
HER156~HER158	1.5	600~1000	75	DO-15
HER201~HER205	2	50~400	50	DO-15
HER206~HER208	2	600~1000	75	DO-15
HER201G~HER205G	2	50~400	50	DO-15
HER206G~HER208G	2	600~1000	75	DO-15
UF2001~UF2004	2	50~400	50	DO-15
UF2005~UF2007	2	600~1000	75	DO-15
HER301~HER305	3	50~400	50	DO-201AD
HER306~HER308	3	600~1000	75	DO-201AD
HER301G~HER305G	3	50~400	50	DO-201AD
HER306G~HER308G	3	600~1000	75	DO-201AD
UF5400~UF5404	3	50~400	50	DO-201AD
UF5406~UF5408	3	600~1000	75	DO-201AD
HER601~HER605	6	50~400	50	R-6
HER606~HER608	6	600~1000	75	R-6
HER601G~HER605G	6	50~400	50	R-6
HER606G~HER608G	6	600~1000	75	R-6
US1A~US1G	1	50~400	50	SMA-W
US1J~US1M	1	600~1000	75	SMA-W
H1A~H1G	1	50~400	50	SOD-123FL
H1J~H1M	1	600~1000	75	SOD-123FL
H1AF~H1GF	1	50~400	50	SMAF
H1JF~H1MF	1	600~1000	75	SMAF
H2AF~H2GF	2	50~400	50	SMAF
H2JF~H2MF	2	600~1000	75	SMAF
HS1A~HS1G	1	50~400	50	SMA
HS1J~HS1M	1	600~1000	75	SMA
HS2AA~HS2AGA	1.5	50~400	50	SMA
HS2JA~HS2AMA	1.5	600~1000	75	SMA
HS2A~HS2G	2	50~400	50	SMB
HS2J~HS2M	2	600~1000	75	SMB
HS3AB~HS3GB	3	50~400	50	SMB
HS3JB~HS3MB	3	600~1000	75	SMB
HS3A~HS3M	3	50~1000	50	SMC
HS5A~HS5M	5	50~1000	45	SMC



## 패스트 리커버리 다이오드 FAST RECOVERY DIODE

Type No.	Io (A)	V <sub>RM</sub> (V)	T <sub>RR</sub> (ns)	Package
1F1~1F4	1	50~400	150	R-1
1F5	1	600	250	R-1
1F6~1F7	1	800~1000	500	R-1
1F1G~1F4G	1	50~400	150	R-1
1F5G	1	600~800	250	R-1
1F6G~1F7G	1	1000	500	R-1
FR101S~FR104S	1	50~400	150	A-405
FR105S	1	600	250	A-405
FR106S~FR107S	1	800~1000	500	A-405
FR101GS~FR104GS	1	50~400	150	A-405
FR105GS	1	600	250	A-405
FR106GS~FR107GS	1	800~1000	500	A-405
BA157	1	400	150	DO-41
BA158	1	600	250	DO-41
BA159	1	1000	500	DO-41
1N4933~1N4937	1	50~600	150	DO-41
1N4933G~1N4937G	1	50~600	150	DO-41
FR101~FR104	1	50~400	150	DO-41
FR105	1	600	250	DO-41
FR106~FR107	1	800~1000	500	DO-41
FR101G~FR104G	1	50~400	150	DO-41
FR105GS	1	600	250	DO-41
FR106G~FR107G	1	800~1000	500	DO-41
FR151S~FR154S	1.5	50~400	150	DO-41
FR155S	1.5	600	250	DO-41
FR156S~FR157S	1.5	800~1000	500	DO-41
FR151GS~FR154GS	1.5	50~400	150	DO-41
FR155GS	1.5	600	250	DO-41
FR156GS~FR157GS	1.5	800~1000	500	DO-41
FR151~FR154	1.5	50~400	150	DO-15
FR155	1.5	600	250	DO-15
FR156~FR157	1.5	800~1000	500	DO-15
FR151G~FR154G	1.5	50~400	150	DO-15
FR155GS	1.5	600	250	DO-15
FR156G~FR157G	1.5	800~1000	500	DO-15
FR201~FR204	2	50~400	150	DO-15
FR205	2	600	250	DO-15
FR206~FR207	2	800~1000	500	DO-15
FR201G~FR204G	2	50~400	150	DO-15
FR205G	2	600	250	DO-15
FR206G~FR207G	2	800~1000	500	DO-15
FR301~FR304	3	50~400	150	DO-201AD
FR305	3	600	250	DO-201AD
FR306~FR307	3	800~1000	500	DO-201AD
FR301G~FR304G	3	50~400	150	DO-201AD
FR305G	3	600	250	DO-201AD
FR306G~FR307G	3	800~1000	500	DO-201AD
BY296~BY299	2	100~800	250	DO-201AD
BY396~BY399	3	100~800	250	DO-201AD
FR601~FR604	6	50~400	150	R-6
FR605	6	600	250	R-6
FR606~FR607	6	800~1000	500	R-6
FR601G~FR604G	6	50~400	150	R-6
FR605G	6	600	250	R-6
FR606G~FR607G	6	800~1000	500	R-6
F1A~F1G	1	50~400	150	SOD-123FL
F1J	1	600	250	SOD-123FL
F1K~F1M	1	800~1000	500	SOD-123FL
F1AF~F1GF	1	50~400	150	SMAF
F1JF	1	600	250	SMAF
F1KF~F1MF	1	800~1000	500	SMAF
F2AF~F2GF	2	50~400	150	SMAF
F2JF	2	600	250	SMAF
F2KF~F2MF	2	800~1000	500	SMAF
RS2A~RS1G	1	50~400	150	SMA-W
RS1J	1	600	250	SMA-W

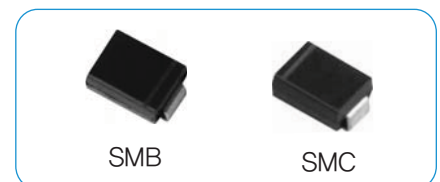
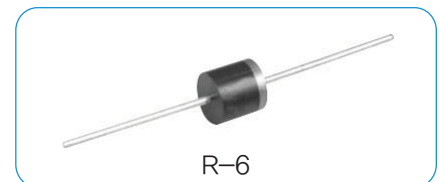
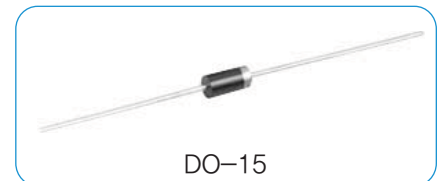
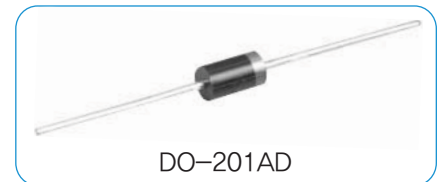
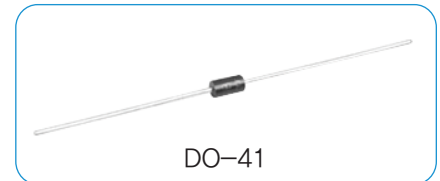
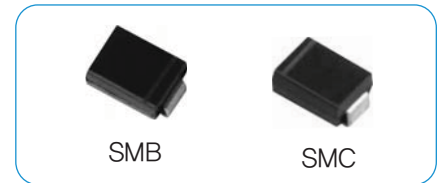
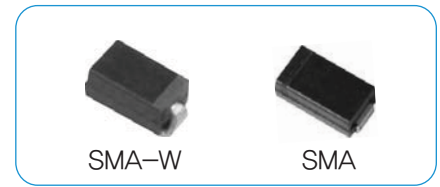


## 패스트 리커버리 다이오드 FAST RECOVERY DIODE

Type No.	Io (A)	V <sub>RM</sub> (V)	T <sub>RR</sub> (ns)	Package
RS1K~RS1M	1	800~1000	500	SMA-W
GR1A~GR1G	1	50~400	150	SMA
GR1J	1	600	250	SMA
GR1K~GR1M	1	800~1000	500	SMA
GR2AA~GR2GA	2	50~400	150	SMA
GR2JA	2	600	250	SMA
GR2KA~GR2MA	2	800~1000	500	SMA
GR2A~GR2G	2	50~400	150	SMB
GR2J	2	600	250	SMB
GR2K~GR2M	2	800~1000	500	SMB
GR3AB~GR3GB	3	50~400	150	SMC
GR3JB	3	600	250	SMC
GR3KB~GR3MB	3	800~1000	500	SMC
GR3A~GR3G	3	50~400	150	SMC
GR3J	3	600	250	SMC
GR3K~GR3M	3	800~1000	500	SMC
GR5A~GR5G	5	50~400	150	SMC
GR5J	5	600	250	SMC
GR5K~GR5M	5	800~1000	500	SMC

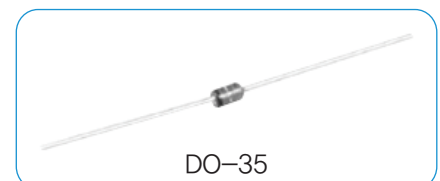
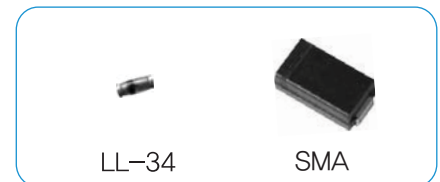
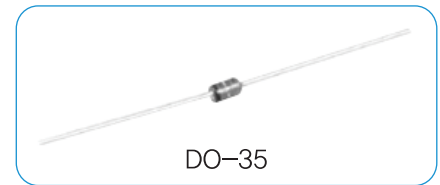
## 트랜전트 볼테이지 서프레서스 TRANSIENT VOLTAGE SUPPRESSORS

Type No.	V <sub>RM</sub> (V)	PD (W)	Package
SMF5.0A~SMF58A	6.4~64.4	200	SOD-123FL
SMF60A~SMF170A	66.7~189	175	SOD-123FL
P4KE6.8/C~P4KE500/C	6.1~450	400	DO-41
P4KE6.8A/CA~P4KE500A/CA	6.5~475	400	DO-41
P6KE6.8/C~P6KE600/C	6.12~540	600	DO-15
P6KE6.8A/CA~P6KE600A/CA	6.45~570	600	DO-15
1.5KE6.8/C~1.5KE600/C	6.12~540	1500	DO-201AD
1.5KE6.8A/CA~1.5KE600A/CA	6.45~570	1500	DO-201AD
SA5.0/C~SA190/C	6.4~211	500	DO-15
SA5.0A/CA~SA190A/CA	6.4~211	500	DO-15
3KP5.0/C~3KP190/C	6.4~211	3000	R-6
3KP5.0A/CA~3KP190A/CA	6.4~211	3000	R-6
SMAJ5.0/C~SMAJ190/C	6.4~211	400	SMA
SMAJ5.0A/CA~SMAJ440A/CA	6.4~492	400	SMA
P4SMA6.8A/CA~P4SMA600A/CA	6.46~570	400	SMA
SMBJ5.0/C~SMBJ190/C	6.4~211.3	600	SMB
SMBJ5.0A/CA~SMBJ440A/CA	6.4~492	600	SMB
P4SMA6.8A/CA~P4SMA600A/CA	6.46~570	600	SMB
SMCJ5.0A/CA~SMCJ440A/CA	6.4~492	1500	SMC
SMCJ5.0/C~SMCJ190/C	6.4~211.3	400	SMC
1.5SMC6.8A/CA~1.5SMC600A/CA	6.46~570	1500	SMC
SMPJ5.0A/CA~SMPJ440A/CA	6.4~492	1500	TO-277
1.5SMP6.8A/CA~1.5SMP600A/CA	6.46~570	1500	TO-277
SMDJ5.0A/CA~SMDJ440A/CA	6.4~492	3000	SMC
SMBJ5.0/C~SMBJ190/C	6.4~211.3	3000	SMC
5.0SMDJ11/C~5.0SMDJ190/C	12.2~211.3	3000	SMC
5.0SMDJ11A/AC~5.0SMDJ440A/AC	12.2~492	3000	SMC



## 제너 다이오드 ZENER DIODE

Type No.	Io (A)	PD (W)	Package
BZX55C2V4~BZX55C200	2.28~212	0.5	DO-35
BZX55B2V7~BZX55B200	2.35~204	0.5	DO-35
1N5221~1N5262	2.4~51	0.5	DO-35
1N4728~1N4764	3.3~100	1	DO-41
1N5220B~1N5956B	6.2~200	1.5	DO-41
1N4728A~1N4764A	3.3~100	1	DO-41
2EA6.2D5~2EZ330D5	6.2~330	2	DO-15
3EZ6.2D5~3EZ200D5	6.2~200	3	DO-15
1N5341B~1N5388G	6.2~200	5	DO-201AD
ZMM55C2V4~ZMM55C75V	2.28~80	0.5	LL-34
ZMM55B2V4~ZMM55B75V	2.35~76.5	0.5	LL-34
ZMM5221~ZMM5262	2.4~51	0.5	LL-34
SMA4728A~SMA4764A	3.3~100	1	SMA
SMA5290B~SMA5956B	6.2~200	1.5	SMA
SMF4728~SMF4764	3.3~100	1	SOD-123FL
SMF5920~SMF5956	6.2~200	1.5	SOD-123FL
SMB2EZ6.2~SMB2EZ180	6.2~180	2	SMB
SMB3EZ6.2~SMB3EZ200	6.2~200	3	SMB
SMC5341B~SMC5384B	6.2~160	5	SMC
DL4728A~DL4764A	3.3~100	1	DL-41
BZV55B2V4~BZV55B75	2.4~75	0.5	MELF
BZV55C2V4~BZV55C75	2.4~75	0.5	MELF
BZM55C2V4~BZM55C75	2.4~75	0.5	MELF
BZX84C2V4~BZX84C39	2.4~39	0.3	SOT23
BZX85C2V7~BZX85C200	2.7~200	1.3	DO-41
BZV85C2V7~BZV85C75	2.7~75	1.3	DO-41



## 실리콘 바이디렉셔널 다이오드 SILICON BIDIRECTIONAL DIACS

Type No.	Maximum Peak Pulse (A)	Breakover Voltage (V)	Package
DB3	2	28~36	DO-35
DB4	2	35~45	DO-35

## 스몰 시그널 스위칭 다이오드 SMALL SIGNAL SWITCHING DIODE

Type No.	Io (A)	V <sub>RM</sub> (V)	Package
1N4148	150	100	DO-35
LL4148	150	100	LL-34

# 다이오드 모듈

## DIODE MODULES

### Rectifier Diode Modules

Type No.	Io (A)	VRRM (V)	Package
MD36C18D1	36	800~1800	D1
MD60C18D1	60	800~1800	D1
MD70C18D1	70	800~1800	D1
MD100C18D1	100	800~1800	D1
MD120C18D1	120	800~1800	D1
MD165C18D2	165	800~1800	D2
MD200C18D2	200	800~1800	D2

### Three Phase Rectifier Modules

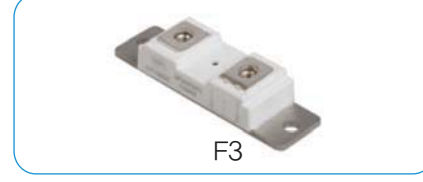
Type No.	Io (A)	VRRM (V)	Package
MD60S18M2	60	800~1800	M2
MD75S18M2	75	800~1800	M2
MD100S18M2	100	800~1800	M2
MD100S18M3	100	800~1800	M3
MD130S18M3	130	800~1800	M3
MD160S18M3	160	800~1800	M3
MD200S18M3	200	800~1800	M3
MD50S18M4	50	800~1800	M4
MD75S18M4	75	800~1800	M4
MD100S18M4	100	800~1800	M4
MD100S18M5	100	800~1800	M5
MD130S18M5	130	800~1800	M5
MD160S18M5	160	800~1800	M5
MD200S18M5	200	800~1800	M5

### Thyristor Modules

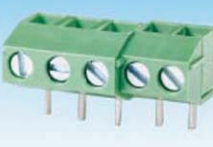
Type No.	Io (A)	VRRM (V)	Package
MT25C16T1	25	800~1600	T1
MT40C16T1	40	800~1600	T1
MT60C16T1	60	800~1600	T1
MT90C16T1	90	800~1600	T1
MT110C16T1	110	800~1600	T1
MT130C16T2	130	800~1600	T2
MT160C16T2	160	800~1600	T2
MT200C16T2	200	800~1600	T2
MT25CB16T1	25	800~1600	T1
MT40CB16T1	40	800~1600	T1
MT60CB16T1	60	800~1600	T1
MT90CB16T1	90	800~1600	T1
MT110CB16T1	110	800~1600	T1
MT130CB16T2	130	800~1600	T2
MT160CB16T2	160	800~1600	T2
MT200CB16T2	200	800~1600	T2
MT75DT16L1	75	800~1600	L1
MT100DT16L1	100	800~1600	L1
MT150DT16L2	150	800~1600	L2
MT200DT16L2	200	800~1600	L2








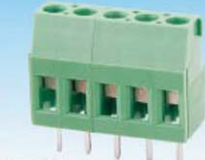












### FRED Modules








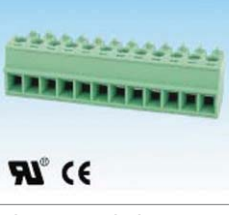












Type No.	Io (A)	VRRM (V)	Package
MF200K04F3	2x00	400	F3
MF330K04F3	2x150	400	F3
MF400K04F3	2x200	400	F3
MF200K06F3	2x100	600	F3
MF300K06F3	2x150	600	F3

















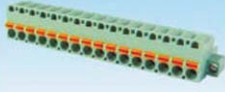


























Part No.	WJ300	WJ300R	WJ305	WJ370	WJ375
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE		
Pitch	5mm,10mm	5mm,10mm	5mm,10mm	7.5mm,15mm	7.5mm,15mm
Rated	250V/16A	250V/16A	300V/15A	300V/15A	300V/15A
Poles	2P.3P	2P.3P	2P.3P	2P.3P	2P.3P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ301	WJ301R	WJ306	WJ332K	WJ332J
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE		
Pitch	5mm,10mm	5mm,10mm	5mm,10mm	5mm,10mm	5mm,10mm
Rated	250V/16A	250V/16A	300V/10A	300V/10A	300V/10A
Poles	2P.3P	2P.3P	2P.3P	2P.3P	1P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	
Part No.	WJ350, WJ396	WJ350R, 396R	WJ350C	WJ126	WJ126R
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE		 UL <sup>®</sup> CE	 UL <sup>®</sup> CE
Pitch	3.5mm, 3.96mm	3.5mm, 3.96mm	3.5mm	5mm, 10mm	5mm, 10mm
Rated	125V/10A	125V/10A	300V/8A	300V/8A	300V/8A
Poles	2P.3P	2P.3P	2P-24P	2P.3P	2P.3P
Wire	24-18AWG 1.0mm <sup>2</sup>	24-18AWG 1.0mm <sup>2</sup>	24-18AWG 1.0mm <sup>2</sup>	26-16AWG 1.5mm <sup>2</sup>	26-16AWG 1.5mm <sup>2</sup>
Part No.	WJ166	WJ167	WJ167R	WJ103	WJ121
PHOTO	 CE			 UL <sup>®</sup> CE △	
Pitch	5mm,10mm	5mm,10mm	5mm,10mm	5mm,10mm	5mm,10mm
Rated	300V/15A	300V/15A	300V/15A	300V/10A	300V/10A
Poles	2P.3P	2P-24P	2P-24P	2P.3P	2P.3P
Wire	26-14AWG 2.5mm <sup>2</sup>	26-14AWG 2.5mm <sup>2</sup>	26-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>








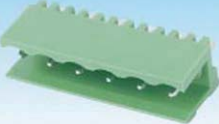
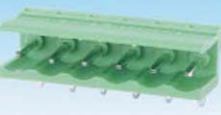
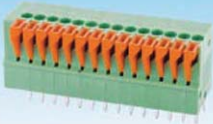

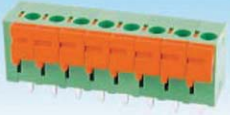



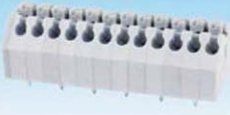


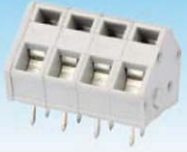

Part No.	WJ122	WJ127	WJ128	WJ128R	WJ128E
PHOTO	 UL <sup>®</sup> CE	 cUL <sup>®</sup> US	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	
Pitch	5mm,10mm	5mm,5.08mm,10mm	5mm,7.5mm	5mm,7.5mm	5mm
Rated	300V/10A	300V/8A	300V/10A	300V/10A	300V/10A
Poles	2P-24P	2P.3P	2P.3P	2P.3P	2P.3P
Wire	22-14AWG 2.5mm <sup>2</sup>	26-16AWG 1.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ129	WJ129R	WJ129-7.62	WJ635	WJ636
PHOTO	 cUL <sup>®</sup> US		 cUL <sup>®</sup> US		
Pitch	5.08mm	5.08mm	7.62mm	6.35mm	6.35mm
Rated	300V/16A	300V/16A	300V/16A	300V/30A	300V/30A
Poles	2P.3P	2P.3P	2P.2P	2P.3P	2P.3P
Wire	24-12AWG 4.0mm <sup>2</sup>	24-12AWG 4.0mm <sup>2</sup>	24-12AWG 4.0mm <sup>2</sup>	26-10AWG 6.0mm <sup>2</sup>	26-10AWG 6.0mm <sup>2</sup>
Part No.	WJ950	WJ116V	WJ330	WJ410	WJ1010
PHOTO		 UL <sup>®</sup> CE			
Pitch	9.5mm	10.16mm	5mm,10mm	5mm,10mm	5mm,10mm
Rated	300V/30A	300V/52A	300V/15A	300V/16A	300V/30A
Poles	2P.3P	1P-NP	2P.3P	1-NP	1-NP
Wire	26-10AWG 6.0mm <sup>2</sup>	20-6AWG 10.0mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-10AWG 6.0mm <sup>2</sup>
Part No.	XD-508	WJA500	WJEK350, WJEK381	WJEEK350, WJEEK381	WJEK350A, WJEK381A
PHOTO			 UL <sup>®</sup>	 UL <sup>®</sup>	 UL <sup>®</sup>
Pitch	5.08mm	5mm,10mm	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm
Rated	300V/12A	300V/10A	300V/10A	300V/10A	300V/10A
Poles	2P.3P	2P.3P	2P.3P	2P.3P	2P.3P
Wire	26-14AWG 2.5mm <sup>2</sup>	26-16AWG 1.5mm <sup>2</sup>	30-16AWG 1.5mm <sup>2</sup>	30-16AWG 1.5mm <sup>2</sup>	30-16AWG 1.5mm <sup>2</sup>

Part No.	WJEK350B,WJEK381B	WJEK500,WJEK508	WJEEK500,WJEEK508	WJEK500A,WJEK508A	WJE3K500A,B/508A,B
PHOTO					
Pitch	3.5mm,3.81mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm
Rated	300V/10A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P.3P	2P.3P	2P.3P	2P.3P	2P.3P
Wire	30-16AWG 1.5mm <sup>2</sup>	24-14AWG 2.5mm <sup>2</sup>	24-14AWG 2.5mm <sup>2</sup>	24-14AWG 2.5mm <sup>2</sup>	30-12AWG 2.5mm <sup>2</sup>
Part No.	WJ105R	WJ105V	WJ15EDGK	WJ15EDGKM	WJ15EDGKA
PHOTO					
Pitch	5mm	5mm	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm
Rated	300V/10A	300V/10A	300V/8A	300V/8A	300V/8A
Poles	1P-NP	1P-NP	2P-24P	2P-20P	2P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>
Part No.	WJ15EDGKAM	WJ15EDGKB	WJ15EDGKBM	WJ15EDGVC	WJ15EDGRC
PHOTO					
Pitch	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm
Rated	300V/8A	300V/8A	300V/8A	300V/8A	300V/8A
Poles	2P-20P	2P-24P	2P-20P	2P-24P	2P-24P
Wire	28-16AWG 1.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>		
Part No.	WJ15EDGVM	WJ15EDGRM	WJ15EDGVT	WJ15EDGVTM	WJ15EDGRT
PHOTO					
Pitch	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm	3.5mm,3.81mm
Rated	300V/8A	300V/8A	300V/8A	300V/8A	300V/8A
Poles	2P-20P	2P-20P	2P-24P	2P-20P	2P-24P
Wire					







































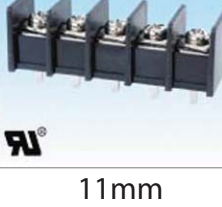



Part No.	WJ15EDGRTM	WJ15EDGVH	WJ15EDGVHM	WJ15EDGRH	WJ15EDGRHM
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE
Pitch	3.5mm,3.81m	3.5mm,3.81m	3.5mm,3.81m	3.5mm,3.81m	3.5mm,3.81m
Rated	300V/8A	300V/8A	300V/8A	300V/8A	300V/8A
Poles	2P-20P	2P-24P	2P-20P	2P-24P	2P-20P
Wire					
Part No.	WJ2EDGK	WJ2EDGKM	WJ2EDGKA	WJ2EDGKAM	WJ2EDGKB
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE
Pitch	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm
Rated	300V/15A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-24P	2P-20P	2P-24P	2P-20P	2P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ2EDGKBM	WJ2EDGKC	WJ2EDGKCM	WJ2EDGKD	WJ2EDGKDM
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE		
Pitch	5mm,5.08mm,7.62mm	5mm,5.08mm	5mm,5.08mm	5.08mm	5.08mm
Rated	300V/15A	300V/12A	300V/12A	300V/10A	300V/10A
Poles	2P-20P	2P-24P	2P-20P	2P-24P	2P-20P
Wire	22-14AWG 2.5mm <sup>2</sup>	28-14AWG 2.5mm <sup>2</sup>	28-14AWG 2.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>	28-16AWG 1.5mm <sup>2</sup>
Part No.	WJ2EDGKZ	WJ2EDGKL	WJ2EDGKLM	WJ2EDGB	WJ2EDGBM
PHOTO	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE	 UL <sup>®</sup> CE
Pitch	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm
Rated	300V/15A	300V/10A	300V/10A	300V/15A	300V/15A
Poles	2P-24P	2P-24P	2P-20P	2P-24P	2P-20P
Wire	28-14AWG 2.5mm <sup>2</sup>	24-12AWG 2.5mm <sup>2</sup>	24-12AWG 2.5mm <sup>2</sup>		




















Part No.	WJ2EDGV	WJ2EDGR	WJ2EDGVC	WJ2EDGRC	WJ2EDGVM
PHOTO					
					
Pitch	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm	5mm,5.08mm,7.62mm
Rated	300V/10A	300V/10A	300V/10A	300V/10A	300V/10A
Poles	2P-24P	2P-24P	2P-24P	2P-24P	2P-20P
Wire					
Part No.	WJ2EDGRM	WJ2EDGVT	WJ2EDGVTM	WJ2EDGVRT	WJ2EDGVRTM
PHOTO					
					
Pitch	5mm,5.08mm,7.62mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm
Rated	300V/10A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-20P	2P-24P	2P-20P	2P-24P	2P-20P
Wire					
Part No.	WJ2EDGVTC	WJ2EDGRTC	WJ2EDGVH	WJ2EDGVHM	WJ2EDGRH
PHOTO					
					
Pitch	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm
Rated	300V/15A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-24P	2P-24P	2P-24P	2P-20P	2P-24P
Wire					
Part No.	WJ2EDGRHM	WJ2EDGL	WJ2EDGLC	WJ2EDGLCM	WJ2EDGKR
PHOTO					
					
Pitch	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm
Rated	300V/15A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-20P	2P-24P	2P-24P	2P-20P	2P-24P
Wire					28-14AWG 2.5mm <sup>2</sup>

Part No.	WJ2EDGKRM	WJ2EDGKRN	WJ2CDGM	HT396	HT396V
PHOTO					
Pitch	5mm,5.08mm	5mm,5.08mm	5mm,5.08mm	3.96mm	3.96mm
Rated	300V/15A	300V/15A	300V/10A	300V/8A	300V/8A
Poles	2P-20P	2P-20P	2P-20P	2P-24P	2P-24P
Wire	28-14AWG 2.5mm <sup>2</sup>	28-14AWG 2.5mm <sup>2</sup>		26-16AWG 1.5mm <sup>2</sup>	
Part No.	HT396R	HT508K	HT508V	HT508R	WJ141V
PHOTO					
Pitch	3.96mm	5.08mm	5.08mm	5.08mm	2.54mm
Rated	300V/8A	300V/10A	300V/10A	300V/10A	150V/2A
Poles	2P-24P	2P-24P	2P-24P	2P-24P	1-NP
Wire	26-16AWG 1.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>			26-18AWG 1.0mm <sup>2</sup>
Part No.	WJ141R	WJ142V	WJ142R	WJ235A	WJ235B
PHOTO					
Pitch	2.54mm	5.08mm,7.62mm	5.08mm,7.62mm	3.81mm,5mm,7.5mm,10mm	3.81mm,5mm,7.5mm,10mm
Rated	150V/2A	300V/10A	300V/10A	300V/5A	300V/5A
Poles	1-NP	1-NP	1-NP	1-NP	1-NP
Wire	26-18AWG 1.0mm <sup>2</sup>	26-16AWG 1.5mm <sup>2</sup>	26-16AWG 1.5mm <sup>2</sup>	22-18AWG 1.0mm <sup>2</sup>	22-18AWG 1.0mm <sup>2</sup>
Part No.	WJ250	WJ236	WJ243A	WJ245	WJ258-2
PHOTO					
Pitch	2.5mm,3.5mm,5mm,7.5mm	5mm	5mm	5mm,7mm,10mm	
Rated	300V/5A	300V/8A	300V/10A	300V/10A	600V/20A
Poles	1-NP	1-NP	1-NP	1-NP	2P
Wire	22-18AWG 1.0mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	28-14AWG 2.5mm <sup>2</sup>	28-14AWG 2.5mm <sup>2</sup>	28-12AWG 4.0mm <sup>2</sup>











































Part No.	WJ258-3	WJ258-5	MY □ HS	MY □ HS+1.2	MY □ HS+4.3
PHOTO					
Pitch			8mm,10mm,12mm,14.5mm	8mm,10mm,12mm,14.5mm	8mm,10mm,12mm,14.5mm
Rated	600V/20A	600V/20A	300V/20A	300V/20A	300V/20A
Poles	3P	5P	2P-12P	2P-12P	2P-12P
Wire	28-12AWG 4.0mm <sup>2</sup>	28-12AWG 4.0mm <sup>2</sup>	0.5-4mm <sup>2</sup> , 1-6mm <sup>2</sup>	0.5-4mm <sup>2</sup> , 1-6mm <sup>2</sup>	0.5-4mm <sup>2</sup> , 1-6mm <sup>2</sup>
Part No.	MY □ H	MY □ H+1.2	MY □ H+4.3	MY □ HW	MY □ HW+1.2
PHOTO					
Pitch	8mm,10mm,12mm,14.5mm	8mm,10mm,12mm,14.5mm	8mm,10mm,12mm,14.5mm	8mm,10mm,12mm,14.5mm	8mm,10mm,12mm,14.5mm
Rated	300V/17.5A	300V/17.5A	300V/17.5A	300V/17.5A	300V/17.5A
Poles	2P-12P	2P-12P	2P-12P	2P-12P	2P-12P
Wire	1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 6mm <sup>2</sup> , 10mm <sup>2</sup>	1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 6mm <sup>2</sup> , 10mm <sup>2</sup>	1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 6mm <sup>2</sup> , 10mm <sup>2</sup>	1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 6mm <sup>2</sup> , 10mm <sup>2</sup>	1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 6mm <sup>2</sup> , 10mm <sup>2</sup>
Part No.	MY □ HW+4.3	MY510	WJ25C	WJ25H	WJ25R
PHOTO					
Pitch	8mm,10mm,12mm,14.5mm	10mm	7.62mm	7.62mm	7.62mm
Rated	300V/17.5A	300V/6.3A	300V/15A	300V/15A	300V/15A
Poles	2P-12P	2P-3P	2P-24P	2P-24P	2P-24P
Wire	1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 6mm <sup>2</sup> , 10mm <sup>2</sup>	18-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ25CM	WJ25HM	WJ25RM	WJ35C	WJ35H
PHOTO					
Pitch	7.62mm	7.62mm	7.62mm	8.25mm	8.25mm
Rated	300V/15A	300V/15A	300V/15A	300V/20A	300V/20A
Poles	2P-20P	2P-20P	2P-20P	2P-24P	2P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>

Part No.	WJ35R	WJ35CM	WJ35HM	WJ35RM	WJ45C
PHOTO					
Pitch	8.25mm	8.25mm	8.25mm	8.25mm	9.5mm
Rated	300V/20A	300V/20A	300V/20A	300V/20A	300V/20A
Poles	2P-24P	2P-20P	2P-20P	2P-20P	2P-24P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>
Part No.	WJ45H	WJ45R	WJ45CM	WJ45HM	WJ45RM
PHOTO					
Pitch	9.5mm	9.5mm	9.5mm	9.5mm	9.5mm
Rated	300V/20A	300V/20A	300V/20A	300V/20A	300V/20A
Poles	2P-24P	2P-24P	2P-20P	2P-20P	2P-20P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>
Part No.	WJ55C	WJ55H	WJ55R	WJ55CM	WJ55HM
PHOTO					
Pitch	10mm	10mm	10mm	10mm	10mm
Rated	300V/20A	300V/20A	300V/20A	300V/20A	300V/20A
Poles	2P-24P	2P-24P	2P-24P	2P-20P	2P-20P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>
Part No.	WJ55RM	WJ65C	WJ65H	WJ65R	WJ65CM
PHOTO					
Pitch	10mm	11mm	11mm	11mm	11mm
Rated	300V/20A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-20P	2P-24P	2P-24P	2P-24P	2P-20P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>

Part No.	WJ65HM	WJ65RM	WJ28C	WJ28H	WJ28R
PHOTO					
Pitch	11mm	11mm	7.62mm	7.62mm	7.62mm
Rated	300V/15A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-20P	2P-20P	2P-24P	2P-24P	2P-24P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 2.5mm <sup>2</sup>	22-12AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ28CM	WJ28HM	WJ28RM	WJ38C	WJ38H
PHOTO					
Pitch	7.62mm	7.62mm	7.62mm	8.25mm	8.25mm
Rated	300V/15A	300V/15A	300V/15A	300V/15A	300V/15A
Poles	2P-20P	2P-20P	2P-20P	2P-24P	2P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ38R	WJ38CM	WJ38HM	WJ38RM	WJ48C
PHOTO					
Pitch	8.25mm	8.25mm	8.25mm	8.25mm	9.5mm
Rated	300V/15A	300V/15A	300V/15A	300V/15A	300V/20A
Poles	2P-24P	2P-20P	2P-20P	2P-20P	2P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ48H	WJ48R	WJ48CM	WJ48HM	WJ48RM
PHOTO					
Pitch	9.5mm	9.5mm	9.5mm	9.5mm	9.5mm
Rated	300V/20A	300V/20A	300V/20A	300V/20A	300V/20A
Poles	2P-24P	2P-24P	2P-20P	2P-20P	2P-20P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>



Part No.	WJ78C	WJ78H	WJ78R	WJ78CM	WJ78HM
PHOTO	 UL®			 UL®	 UL®
Pitch	13mm	13mm	13mm	13mm	13mm
Rated	600V/40A	600V/40A	600V/40A	600V/40A	600V/40A
Poles	2P-20P	2P-20P	2P-20P	2P-18P	2P-18P
Wire	18-10AWG 6.0mm <sup>2</sup>	18-10AWG 6.0mm <sup>2</sup>	18-10AWG 6.0mm <sup>2</sup>	18-10AWG 6.0mm <sup>2</sup>	18-10AWG 6.0mm <sup>2</sup>
Part No.	WJ78RM	WJ06	WJ16	WJ16A	WJ16R
PHOTO	 UL®		 UL® CE	 UL® CE	
Pitch	13mm	7.62mm	6.35mm	6.35mm	6.35mm
Rated	600V/40A	300V/20A	300V/10A	300V/10A	300V/10A
Poles	2P-18P	2P-24P	2P-24P	2P-24P	2P-24P
Wire	18-10AWG 6.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>
Part No.	WJ26(HB500)	WJ36	WJ46	WJ46A	WJ46G
PHOTO	 CE	 CE	 cUL® US CE	 cUL® US CE	 cUL® US CE
Pitch	8.5mm	8.25mm	9.5mm	9.5mm	9.5mm
Rated	300V/20A	300V/30A	300V/30A	300V/20A	300V/20A
Poles	2P-24P	2P-20P	2P-20P	2P-20P	2P-20P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>
Part No.	WJ46GA	WJ46GX	WJ66	WJ66A	WJ31
PHOTO	 cUL® US CE	 cUL® US CE	 CE	 CE	
Pitch	9.5mm	9.5mm	11.1mm	11.1mm	8.5mm
Rated	300V/20A	300V/20A	300V/30A	300V/30A	300V/15A
Poles	2P-20P	2P-20P	2P-20P	2P-20P	2P-24P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>

Part No.	WJ32	WJ45X	WJ48RW	WJ49M	WJ24-1
PHOTO					
Pitch	8mm	9.5mm	9.5mm	9.5mm	7.62mm
Rated	300V/15A	300V/20A	300V/20A	300V/20A	300V/15A
Poles	2P-3P	2P-20P	2P-22P	2P-20P	2P-24P
Wire	22-14AWG 2.5mm <sup>2</sup>	22-14AWG 4.0mm <sup>2</sup>	22-14AWG 4.0mm <sup>2</sup>	22-14AWG 4.0mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>
Part No.	WJ24-2	CZX7620	CZ-7620	CZ-7620H	CZ-7620A
PHOTO					
Pitch	7.62mm	7.62mm	7.62mm	7.62mm	7.62mm
Rated	300V/15A	300V/10A	300V/10A	300V/10A	300V/10A
Poles	2P-20P	2P-24P	2P.3P	2P.3P	2P.3P
Wire	22-12AWG 2.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>
Part No.	2CZ-7620B	CZ-8500	2CZ-8500	SR-10	EM-1
PHOTO					
Pitch	7.62mm	8.5mm	8.5mm	10mm	11mm
Rated	300V/10A	300V/10A	300V/10A	300V/20A	300V/25A
Poles	2P.3P	2P.3P	2P.3P	2P.3P	3P
Wire	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-16AWG 1.5mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>
Part No.	EM-1A	EM-2	EM-2A	EM-3	EM-4
PHOTO					
Pitch	11mm	11mm	11mm	11.5mm	8.8mm
Rated	300V/25A	300V/25A	300V/25A	300V/30A	300V/15A
Poles	3P	3P	3P	3P	4P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-10AWG 6.0mm <sup>2</sup>	22-14AWG 2.5mm <sup>2</sup>



Part No.	EM-5	EM-6	EM-7	EM-8	EM-9
PHOTO					
Pitch	12.5mm	8.75mm	11mm	17.5mm	24.2mm,23mm
Rated	300V/32A	300V/25A	300V/52A	600V/60A	600V/16-100A
Poles	3P	1NP	3P	2P	3P
Wire	22-10AWG 6.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	20-6AWG 10.0mm <sup>2</sup>	12-4AWG 16.0mm <sup>2</sup>	12-2AWG 4-35mm <sup>2</sup>
Part No.	EM-51H	EM-52H	EM-1H	EM-2H	EMT-2
PHOTO					
Pitch	12.5mm	12.5mm	11mm	11mm	11mm
Rated	300V/32A	300V/32A	300V/25A	300V/25A	300V/30A
Poles	3P	3P	4P	4P	2P
Wire	22-10AWG 6.0mm <sup>2</sup>	22-10AWG 6.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>
Part No.	EMT-3	EMT-4	EM-21	EM-21A	WJ218-01
PHOTO					
Pitch	12.65mm	11.0mm	11.0mm	11.0mm	9mm,11mm
Rated	300V/32A	300V/32A	300V/32A	300V/32A	400V/2.24A
Poles	3P	4P	8P	8P	1P
Wire	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	22-12AWG 4.0mm <sup>2</sup>	
Part No.	WJ218-02	WJ218-04	WJ218-06	WJ218-08	WJTD-01
PHOTO					
Pitch	12mm,13mm	12mm,13mm	12mm,13mm	12mm,13mm	
Rated	400V/2.24A	400V/2.24A	400V/2.24A	400V/2.24A	
Poles	2P	4P	6P	8P	
Wire					

## IR리시버 IR RECEIVER



Part Number	Supply Voltage		Supply Current		Center Frequency	Reception Distance		Viewing Angle
	Min.	Max.	Min.	Max.	Typ.	Min.	Typ.	2 $\theta$ 1/2(°)
CLT 138L(N)	2.7	6	0.9	1.5	37.9	12	18	$\pm 45$
CLT 138TM2(N)	2.7	6	0.9	1.5	37.9	15	20	$\pm 45$
CLS 138FN	2.7	6	0.9	1.5	37.9	12	20	$\pm 45$



## IR엘이디 IR LED

Part Number	Package Type	Emitting Color	Luminous Intensity (mW/Sr)		$\lambda_p$ (nm)	Half Angle	$I_{Fmax}$	Forward Voltage (V)
			AVG	Rank				
CLE23G	4.6X4.6mm	Infrared	2.0	-	940	$\pm 30^\circ$	50mA	outside
CLE302	3.2X2.8mm	Infrared	0.7	-	940	$\pm 30^\circ$	50mA	Inside
CL85I3311-C	3 $\emptyset$	Infrared	55	-	850	$\pm 20^\circ$	50mA	1.5
CLI3311-H	3 $\emptyset$	Infrared	25	-	940	$\pm 20^\circ$	50mA	1.5
CL85I5315-C	5 $\emptyset$	Infrared	110	-	850	$\pm 20^\circ$	50mA	1.5
CLI5315-H	5 $\emptyset$	Infrared	60	-	940	$\pm 20^\circ$	50mA	1.5
CLIR3328-UC	3.2X2.8mm	Red/Infrared	400/100	-	625/850	$\pm 60^\circ$	20mA/50mA	2/1.5

## UV센서 (CAN타입)

UV SENSOR

Part Number	Package Type	MAXIMUM RATINGS				ELECTRO-OPTICAL CHARACTERISTICS					
		Forward Current IF(mA)	Reverse Voltage VR(V)	Power Dissipation PD(mW)	Operating Temp Topr (°C)	Radiant Intensity PO(mW/sr) Typ.IF(mA)		Forward Voltage VF(V) Typ.IF(mA)		Peak Emission Wavelength pλ(nm)	Half Angle (deg.) Typ
CLVL-1KLF365	TO18	100	5	100	-30 ~80	700	20	3.6	20	365	±7
CLVL-1KLF375	TO18	100	5	100	-30 ~80	700	20	3.6	20	375	±7
CLVL-1KLF380	TO18	100	5	100	-30 ~80	700	20	3.6	20	380	±7
CLVL-1KLF385	TO18	100	5	100	-30 ~80	700	20	3.6	20	385	±7
CLVL-1KLF390	TO18	100	5	100	-30 ~80	1700	20	3.6	20	390	±7
CLVL-1KLF395	TO18	100	5	100	-30 ~80	1700	20	3.6	20	395	±7
CLVL-1KLF400	TO18	100	5	100	-30 ~80	1700	20	3.6	20	400	±7
CLVL-1KLF405	TO18	100	5	100	-30 ~80	1700	20	3.6	20	405	±7
CLVL-1KLF410	TO18	100	5	100	-30 ~80	1700	20	3.6	20	410	±7
CLVL-1KLF415	TO18	100	5	100	-30 ~80	1700	20	3.6	20	415	±7
CLVL-1KLF420	TO18	100	5	100	-30 ~80	1700	20	3.6	20	420	±7

## UV센서 (LAMP타입)

UV SENSOR

Part Number	Package Type	Emitting Color	Luminous Intensity (mW/Sr)		$\lambda_p$ (nm)	Half Angle	I <sub>Fmax</sub>	Forward Voltage (V)
			AVG	Rank				
CL38V3311-Z	3∅	UV	40	-	385	±20°	20mA	2.8 ~ 3.4
CL38V5315-Z	5∅							
CLV3311-Z	3∅	UV	55	-	405	±20°	20mA	2.8 ~ 3.4
CLV5315-Z	5∅							

## 디텍터-포토 트랜지스터 (CAN타입)

DETECTOR – PHOTO TRANSISTOR

Part Number	Package Type	Collector Dark Current $I_{le0}$ ( $\mu A$ )	Light Current $I_l$ (mA)	Switching Speed		Spectral Sensitivity $\lambda$ (nm)	Peak Wavelength $\lambda_p$ (nm)	Half Angle (deg.) Typ	Collector Emitter Voltage $V_{ce0}$ (V)	Dimension (code/page)
				Rise Time tr	Fall Time tr					
CLST-1KLA	TO18	1.0	8.0	8	10	350~1,050	880	$\pm 15$	40	1KL/7
CLST-1KLAR2	TO18	1.0	6.0	8	10	720~1,050	940	$\pm 8$	40	1KL/7
CLST-1KLB	TO18	1.0	8.0	8	10	350~1,050	880	$\pm 15$	40	1KL/7
CLST-1KA	TO18	1.0	3.0	8	10	350~1,050	880	$\pm 50$	40	1KL/7
CLST-1KB	TO18	1.0	3.0	8	10	350~1,050	880	$\pm 50$	40	1KL/7
CLST-1KL3A	TO18	1.0	7.0	8	10	350~1,050	880	$\pm 6$	40	1KL/7
CLST-1KL3B	TO18	1.0	7.0	8	10	350~1,050	880	$\pm 6$	40	1KL/7
CLST-1MLA	TO18	1.0	2.0	8	10	350~1,050	880	$\pm 70$	40	1KL/7
CLST-1MLAR2	TO18	1.0	2.0	8	10	720~1,050	940	$\pm 70$	40	1KL/7
CLST-1MLB	TO18	1.0	2.0	8	10	350~1,050	880	$\pm 70$	40	1KL/7
CLST-1MLBR2	TO18	1.0	2.0	8	10	720~1,050	940	$\pm 70$	40	1KL/7

## 포토 인터럽터

PHOTO INTERRUPTER

Part Number	Dimension	Input $V_F$	Input $\lambda_p$	Switching Speed		$I_{CEL}$	$I_{CMAX}$	$I_{FMAX}$
				Rise	Fall			
CLI-233	4.2x6.4mm	1.2V	940nm	50 $\mu S$	50 $\mu S$	50mA	20mA	50mA
CLI-206	4.2x6.4mm	1.2V	940nm	50 $\mu S$	50 $\mu S$	50mA	20mA	50mA

## 포토 트랜지스터 (LAMP타입)

PHOTO INTERRUPTER

Part Number	Dimension	Lens Color	$I_{CEL}$ $V_{CE} \#5V$ 1000Lux	Peak Sensitivity(nm)		Half Angle	$I_{CMAX}$	$P_D$ (nm)
				Rise	Fall			
CLT-23G	4.6x4.6mm	Black	30	4.0mA	880	$\pm 30$	20mA	outside
CLT-302	3.2x2.8mm	Black	30	1.5mA	880	$\pm 30$	20mA	outside
CLT-3311	3 $\varnothing$	Water Clear	35	4.5mA	880	$\pm 20$	20mA	outside
CLT-3811	3 $\varnothing$	Black	35	4.5mA	880	$\pm 20$	20mA	outside
CLT-5811	5 $\varnothing$	Black	35	4.5mA	880	$\pm 20$	20mA	outside

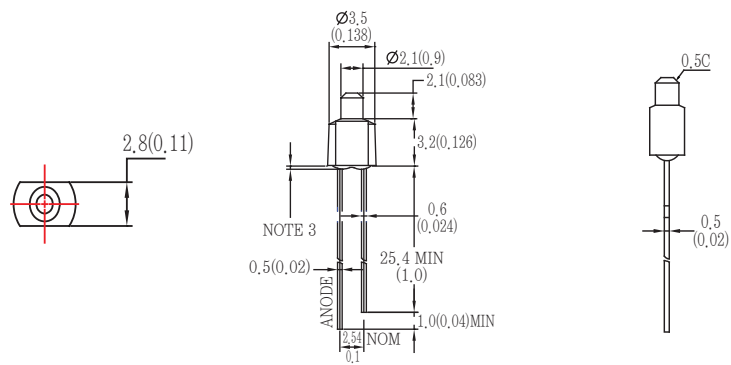
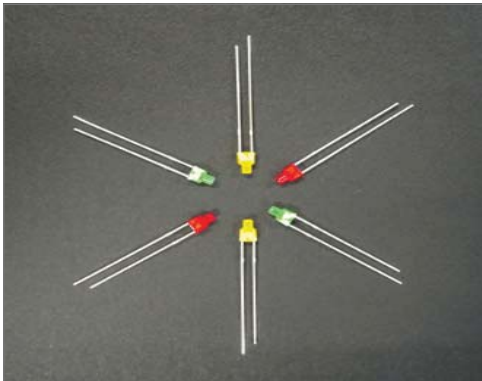
## 포토 트랜지스터 (LAMP타입)

PHOTO INTERRUPTER

Part Number	Package Type	MAXIMUM RATINGS		ELETRO-OPTICAL CHARATERISTICS			
		Revers Voltage $V_R$ (V)	Operating Temp $T_{opr}$ ( $^{\circ}C$ )	Spectral Response $\lambda_p$ (nm)	Peak Wavelength $\lambda_p$ (nm)	Photo Sensitivity $s(A/W)$	Dark Current $I_d$ (pA)
CLSC-2KR	TO46	10	-20~85	590~710	660	0.56	100m
CLSC-2KG	TO46	10	-20~85	460~600	530	0.31	100m
CLSC-2KB	TO46	10	-20~85	400~530	470	0.23	100m
CLSC-3KR	TO5	10	-20~85	590~710	600	0.56	100m
CLSC-3KG	TO5	10	-20~85	460~600	530	0.31	100m
CLSC-3KB	TO5	10	-20~85	400~530	470	0.23	100m

## 2파이 (꼭지타입)

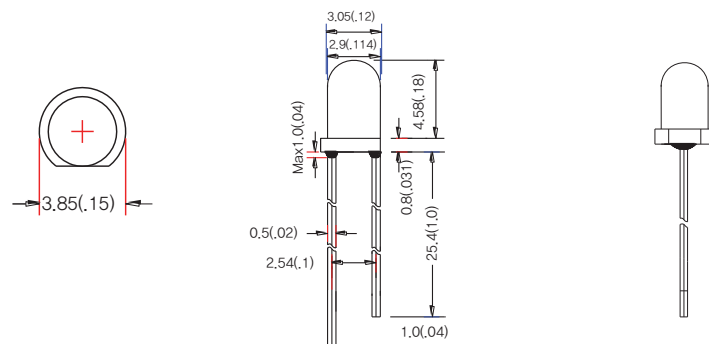
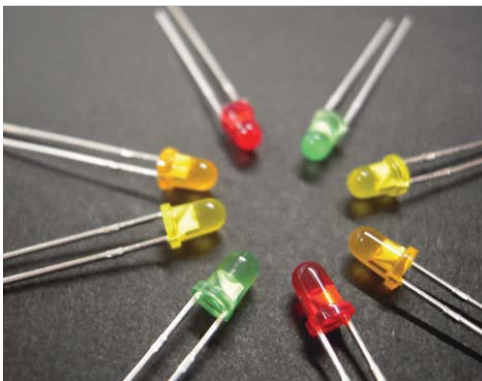
2∅ Lamp



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
	2014HD1A-001	Red Diffused	630	145	40	60	1.8	2.2
	2014GD1A-001	Green Diffused	570	145	40	60	1.8	2.2
	2014YD1A-001	Yellow Diffused	590	145	40	60	1.8	2.2

## 3파이 램프 LED

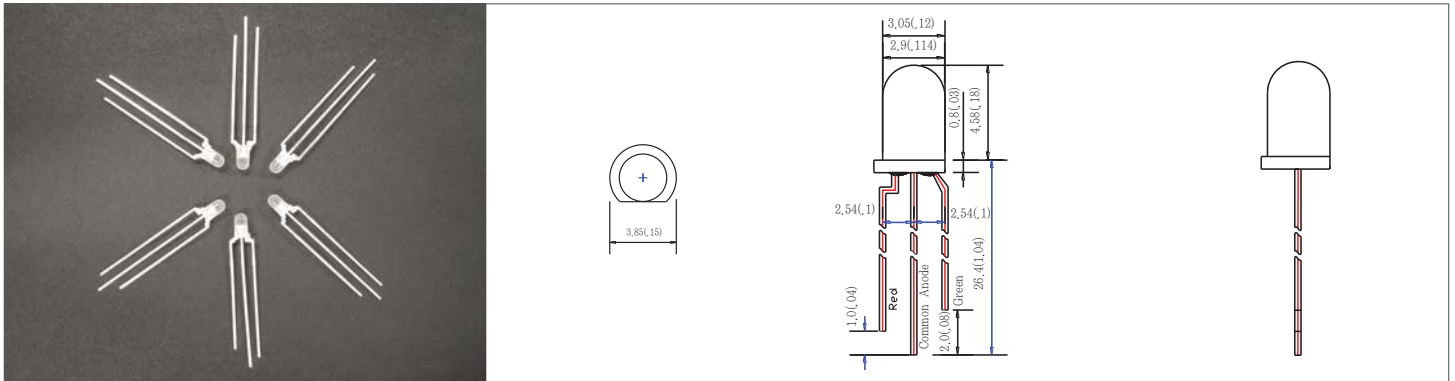
3∅ Lamp



	Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
						min	typ	min	max
일 반		3014HD1A-001	Red Diffused	630	45	20	40	1.8	2.2
		3014GD1A-001	Green Diffused	570	45	20	40	1.8	2.2
		3014YD1A-001	Yellow Diffused	590	45	25	50	1.8	2.2
		3014AD1A-001	Amber Diffused	605	45	25	50	1.8	2.2
고 휘 도		3014SRC1A-002	Water Clear	630	20	200	400	1.8	2.2
		3014LRC1A-002	Water Clear	630	20	700	1000	1.8	2.2
		3014GC1A-003	Water Clear	570	20	300	500	1.8	2.2
		3014UYC1A-010	Water Clear	590	20	2000	3000	1.8	2.2
		3014PUYC1A-001	Water Clear	590	30	6000	7000	1.8	2.2
		3014URC1A-007	Water Clear	630	20	3000	4000	1.8	2.2
		3014PGC1A-001	Water Clear	525	30	7500	11000	2.8	3.4
		3014JBC1A-001	Water Clear	460	30	2500	3500	2.8	3.4
		3014UWC1A-001	Water Clear	X:0.30 Y:0.30	30	8000	10000	2.8	3.4
	3014UWC1A-UWW	Water Clear	X:0.38 Y:0.45	30	8000	10000	2.8	3.4	

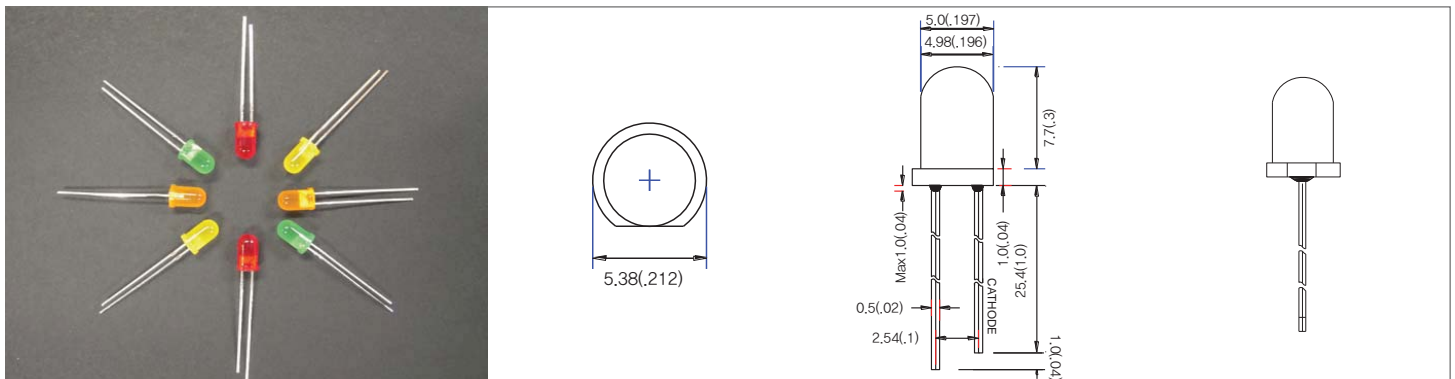


### 3파이 2칼라 램프 LED 3Ø 2 Color Lamp



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
3Ø 2칼라	3019EGW1A-002-CC	White Diffused	630	50	30	50	1.8	2.2
			570	50	30	50	1.8	2.2
	3019SGW1A-003-CA	White Diffused	630	50	40	60	1.8	2.2
			570	50	30	50	1.8	2.2

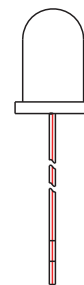
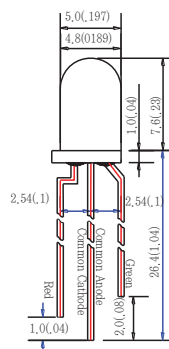
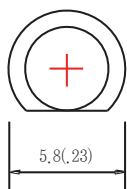
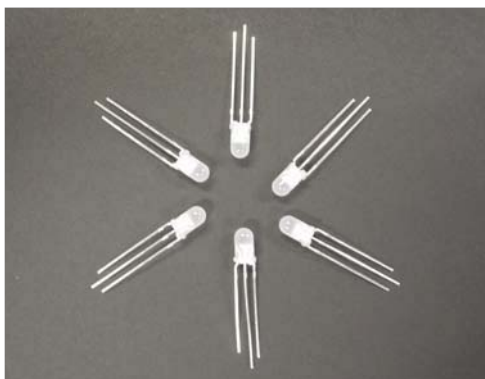
### 5파이 램프 LED 5Ø Lamp



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
일 반	5013HD1C-001	Red Diffused	630	35	20	40	1.8	2.2
	5013GD1C-001	Green Diffused	570	35	20	40	1.8	2.2
	5013YD1C-001	Yellow Diffused	590	35	25	50	1.8	2.2
	5013AD11C-001	Amber Diffused	605	35	25	50	1.8	2.2
고 휘 도	5013SRC1C-001	Water Clear	630	15	200	400	1.8	2.2
	5013LRC1C-001	Water Clear	630	15	1000	1300	1.8	2.2
	5013GC1C-001	Water Clear	570	15	300	500	1.8	2.2
	5013UYC1C-009	Water Clear	590	15	2000	3000	1.8	2.2
	5013LUYC1H-003	Water Clear	590	30	6000	7000	1.8	2.2
	5013URC1C-012	Water Clear	630	15	3500	4500	1.8	2.2
	5014LURC1H-007	Water Clear	630	30	6000	7000	1.8	2.2
	5014PGC1C-001	Water Clear	525	15	13000	15000	2.8	3.4
	5014UBC1H-001	Water Clear	460	30	3500	5000	2.8	3.4
	5014UWC1C-010	Water Clear	X:0.30 Y:0.30	30	10000	13000	2.8	3.4
5014UWC1C-UWW	Water Clear	X:0.38 Y:0.45	30	10000	13000	2.8	3.4	

## 5파이 2~3칼라 램프 LED

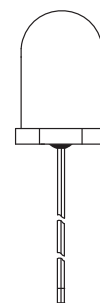
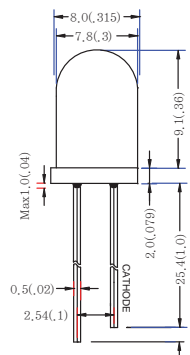
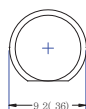
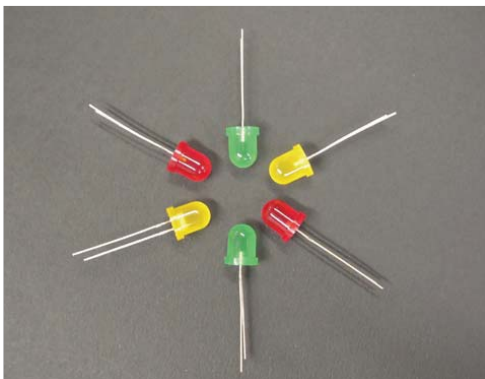
5Ø 2~3 Color Lamp



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
5Ø 2칼라	5019RGW1C-001-CC	White Diffused	630	50	30	50	1.8	2.2
			570	50	30	50	1.8	2.2
	5019SGW1C-003-CA	White Diffused	630	50	40	60	1.8	2.2
			570	50	30	50	1.8	2.2
5Ø 3칼라 RGB	5019RGBC1C	Water Clear	630	20	3500	4500	1.8	2.2
			525	20	13000	15000	2.8	3.4
			460	20	3500	5000	2.8	3.4

## 8파이 램프 LED

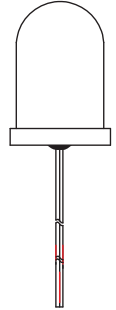
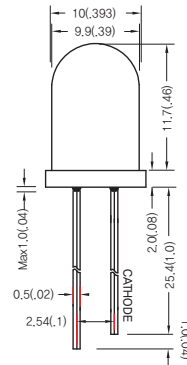
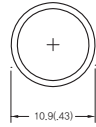
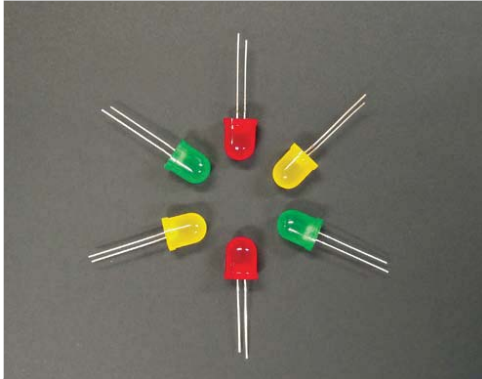
8Ø Lamp



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
일 반	8013HD1B-001	Red Diffused	630	50	50	130	1.8	2.2
	8013GD1B-001	Green Diffused	570	50	40	100	1.8	2.2
	8013YD1B-001	Yellow Diffused	590	50	50	130	1.8	2.2
고 휘 도	8013URC1B-001	Water Clear	630	40	2000	3500	1.8	2.2
	8013UYC1B-001	Water Clear	590	40	1800	2200	1.8	2.2
	8013PGC1B-001	Water Clear	525	40	8000	12000	2.8	3.4
	8013UBC1B-001	Water Clear	460	40	6000	8000	2.8	3.4
	8013UWC1B-001	Water Clear	X:0.30 Y:0.30	40	8000	13000	2.8	3.4
	8013UWC1B-UWW	Water Clear	X:0.38 Y:0.45	40	8000	13000	2.8	3.4

## 10파이 램프 LED

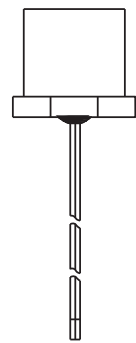
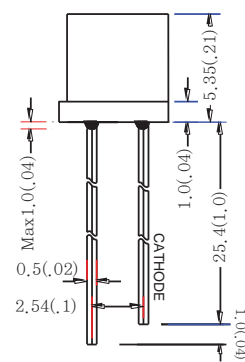
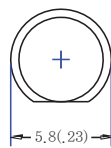
10 $\phi$  Lamp



	Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
						min	typ	min	max
일 반		10013HD1A-001	Red Diffused	630	50	70	150	1.8	2.2
		10013GD1A-001	Green Diffused	570	50	50	130	1.8	2.2
		10013YD1A-001	Yellow Diffused	590	50	70	150	1.8	2.2
고 휘 도		10013URC1A-001	Water Clear	630	45	2000	3500	1.8	2.2
		10013UYC1A-001	Water Clear	590	45	1800	2200	1.8	2.2
		10013PGC1A-001	Water Clear	525	45	8000	12000	2.8	3.4
		10013UBC1A-001	Water Clear	460	45	6000	8000	2.8	3.4
		10013UWC1A-001	Water Clear	X:0.30 Y:0.30	45	8000	13000	2.8	3.4
		10013UWC1A-UWW	Water Clear	X:0.38 Y:0.45	45	8000	13000	2.8	3.4

## 플랫타입 램프 LED

Flat Type Lamp

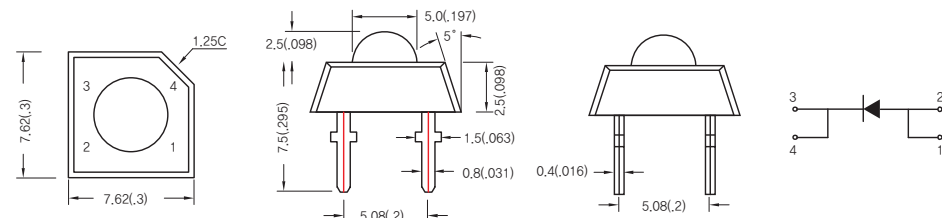


	Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
						min	typ	min	max
		5043URC1E-001	Water Clear	630	90	200	300	1.8	2.2
		5043UYC1E-002	Water Clear	590	90	250	400	1.8	3.4
		5043PGC1E-001	Water Clear	525	90	800	1200	2.8	3.4
		5043UBC1E-001	Water Clear	460	90	300	500	2.8	3.4
		5044UWC1E-001	Water Clear	X:0.30 Y:0.30	90	1200	1500	2.8	3.4
		5044UWC1E-UWW	Water Clear	X:0.38 Y:0.45	90	1200	1500	2.8	3.4



## 슈퍼 플럭스 LED

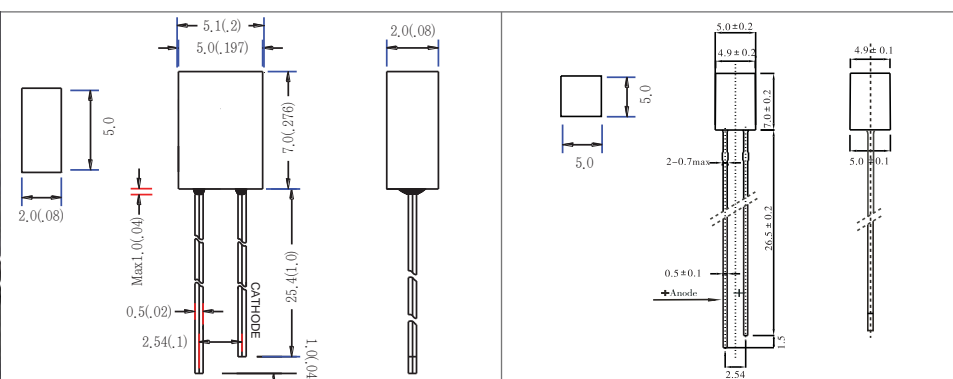
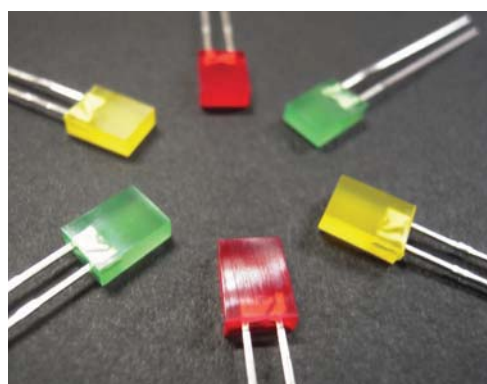
Super Flux LED



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
	1130URC1C-001	Water Clear	630	90	1100	1300	1.8	2.2
	1130UYC1C-001	Water Clear	590	90	1000	1200	1.8	2.2
	1130PGC1C-001	Water Clear	525	90	2200	3000	2.8	3.4
	1130UBC1C-001	Water Clear	460	90	1000	1300	2.8	3.4
	1130UWC1C-001	Water Clear	X:0.30 Y:0.30	90	2500	3500	2.8	3.4
	1130UWC1C-UWW	Water Clear	X:0.38 Y:0.45	90	2500	3500	2.8	3.4

## 2X5/5X5사각타입 램프 LED

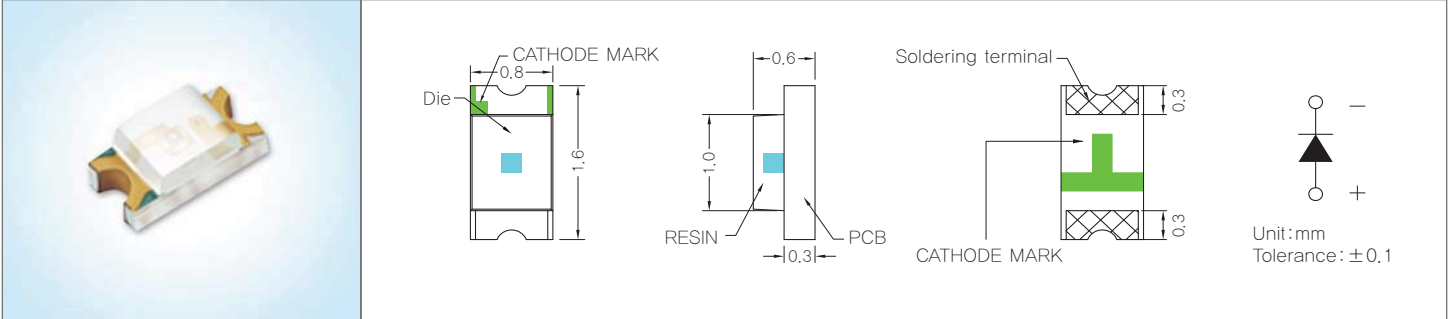
2X5/5X5 Quadrangle LAMP LED



Color	Type No.	Packing Color	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)		
					min	typ	min	max	
2X5 SIZE 1칼라		25A3HD1B-002	Red Diffused	630	140	40	60	1.8	2.2
		25A3GD1B-002	Green Diffused	570	140	40	60	1.8	2.2
		25A3YD1B-002	Yellow Diffused	590	140	40	60	1.8	2.2
2X5 SIZE 2칼라		25A9RGW1B-001-CC	White Diffused	630	140	50	60	1.8	2.2
	570			140	50	60	1.8	2.2	
		25A9RGW1B-001-CA	White Diffused	630	140	50	60	1.8	2.2
				570	140	50	60	1.8	2.2
5X5 SIZE 1칼라		55A3HD1A-001	Red Diffused	630	140	40	60	1.8	2.2
		55A3GD1A-001	Green Diffused	570	140	40	60	1.8	2.2
		55A3YD1A-001	Yellow Diffused	590	140	40	60	1.8	2.2

## 1608사이즈 칩 LED

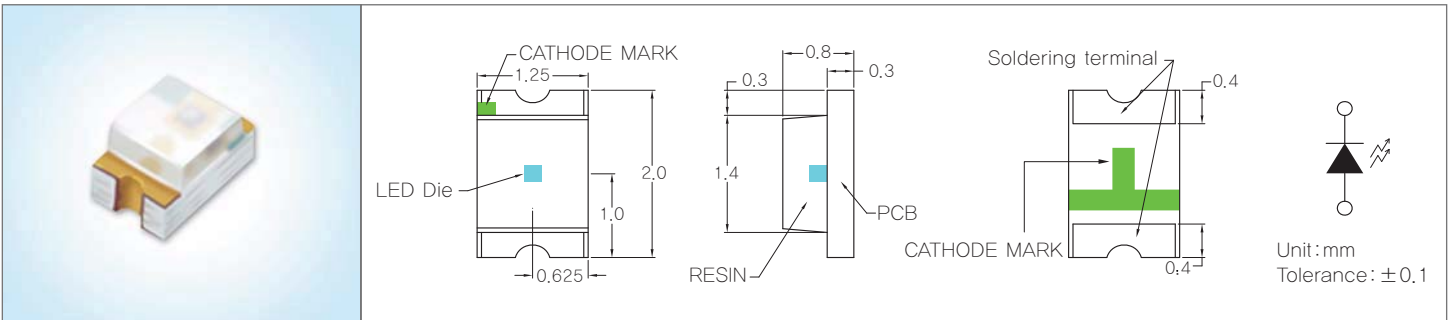
1608 Size SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	5/20mA mcd		Forward Voltage(V)	
					min	typ	min	max
1608 사이즈 (0603) SMD LED		CL-SP192UHR	630	130	72	90	1.8	2.2
		CL-SP192USO	605	130	72	90	1.8	2.2
		CL-SP192UHY	590	130	72	90	1.8	2.2
		CL-SP192UYG	570	130	45	60	1.8	2.2
		CL-SP192DLG	525	130	300	500	2.8	3.4
		CL-SP192DNB	460	130	115	150	2.8	3.4
		SP0603B-BN(5mA)	460	130	30	60	2.4	3.0
		CL-SP192DBW	X:0.29 Y:0.29	130	400	500	2.8	3.4
		SP0603B-WW(5mA)	X:0.29 Y:0.29	130	75	210	2.4	3.0
		CL-SP192DWW	X:0.38 Y:0.45	130	400	500	2.8	3.4

## 2012사이즈 칩 LED

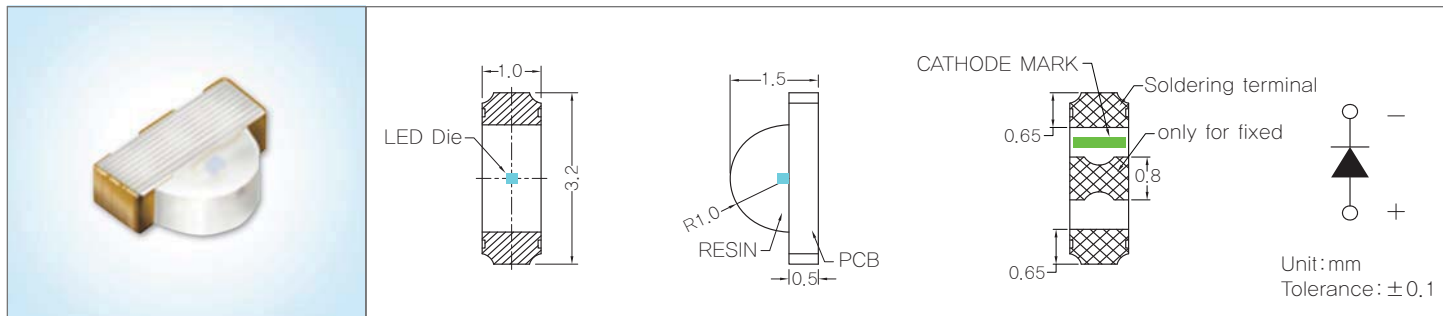
2012 Size SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	5/20mA mcd		Forward Voltage(V)	
					min	typ	min	max
2012 사이즈 (0805) SMD LED		CL-SP172UHR	630	130	72	100	1.8	2.2
		CL-SP172USO	605	130	72	100	1.8	2.2
		CL-SP172UHY	590	130	72	100	1.8	2.2
		CL-SP172UYG	570	130	45	80	1.8	2.2
		CL-SP172DLG	525	130	400	580	2.8	3.4
		CL-SP172DNB	460	130	115	150	2.8	3.4
		SP0805B-BN(5mA)	460	130	30	60	2.4	3.0
		CL-SP172DBW	X:0.29 Y:0.29	130	450	600	2.8	3.4
		SP0805B-WW(5mA)	X:0.29 Y:0.29	130	75	210	2.4	3.0
		CL-SP172DWW	X:0.38 Y:0.45	130	450	600	2.8	3.4

## 3210 사이드뷰 칩 LED

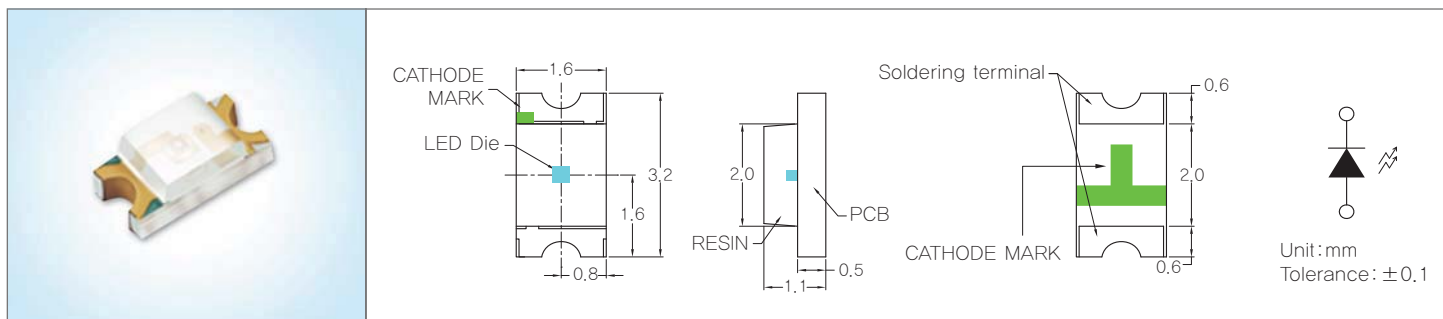
3210 Side View SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
3210 사이즈 (1204) 사이드뷰 LED		CL-SP110UHR	630	110	72	90	1.8	2.2
		CL-SP110USO	605	110	72	90	1.8	2.2
		CL-SP110UHY	590	110	72	90	1.8	2.2
		CL-SP110UYG	570	110	45	60	1.8	2.2
		CL-SP110DLG	525	110	300	500	2.8	3.4
		CL-SP110DNB	460	110	115	150	2.8	3.4
		CL-SP110DBW	X:0.29 Y:0.29	110	400	500	2.8	3.4
		CL-SP110DWW	X:0.38 Y:0.45	110	400	500	2.8	3.4

## 3216사이즈 칩 LED

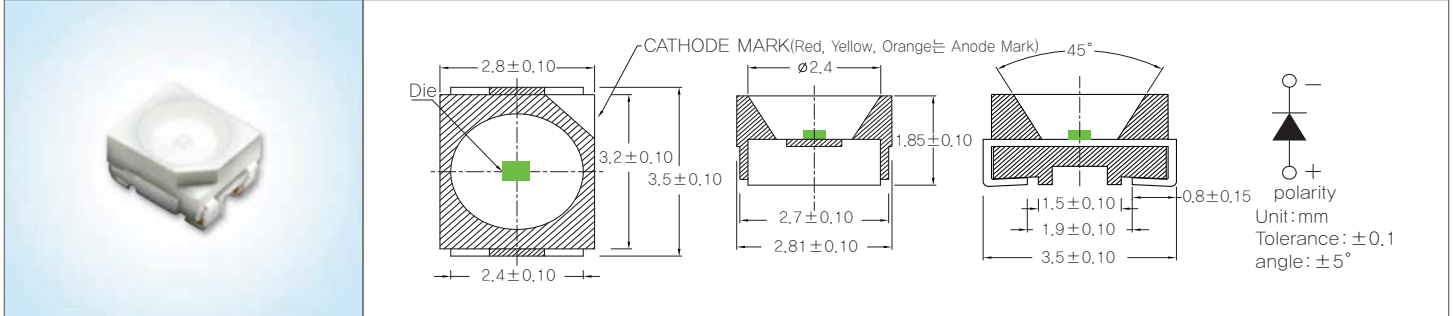
3216 Size SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	5/20mA mcd		Forward Voltage(V)	
					min	typ	min	max
3216 사이즈 (1206) SMD LED		CL-SP150UHR	630	140	115	130	1.8	2.2
		CL-SP150USO	605	140	115	130	1.8	2.2
		CL-SP150UHY	590	140	115	130	1.8	2.2
		CL-SP150UYG	570	140	60	80	1.8	2.2
		CL-SP150DLG	525	140	400	580	2.8	3.4
		CL-SP150DNB	460	140	180	300	2.8	3.4
		SP1206B-BN(5mA)	460	140	30	60	2.4	3.0
		CL-SP150DBW	X:0.29 Y:0.29	140	450	600	2.8	3.4
		SP1206B-WW(5mA)	X:0.29 Y:0.29	140	75	210	2.4	3.0
		CL-SP150DWW	X:0.38 Y:0.45	140	450	600	2.8	3.4

## 3528 사이즈 칩 LED

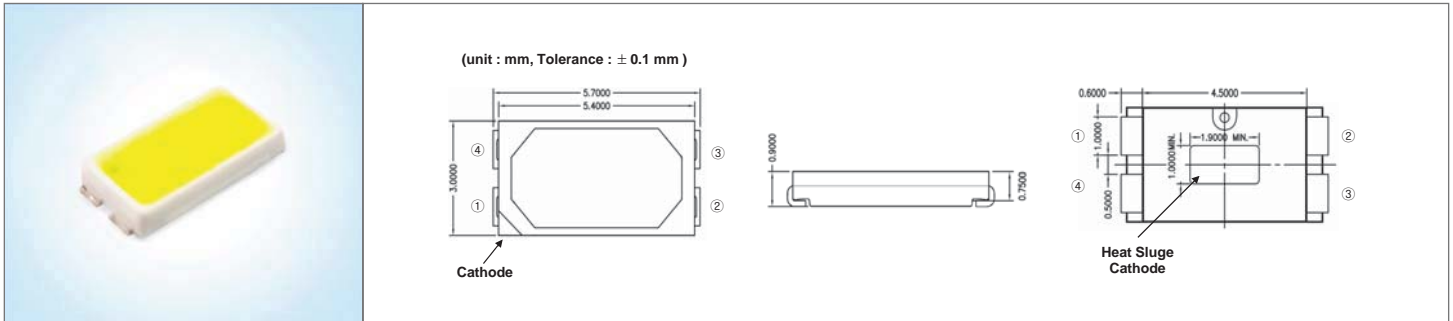
3528 Size SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
3528 사이즈 1CHIP SMD LED		CL-SF681USD	630	130	400	600	1.8	2.2
		CL-SF681USO	605	130	400	600	1.8	2.2
		CL-SF681UHY	590	130	400	600	1.8	2.2
		CL-SF681UYG	570	130	150	200	1.8	2.2
		CL-SF681DLG	525	130	700	1000	2.8	3.4
		CL-SF681DNB	460	130	300	500	2.8	3.4
		CL-SF681DBW	X:0.29 Y:0.29	130	1500	2000	2.8	3.4
		CL-SF681DWW	X:0.38 Y:0.45	130	1500	2000	2.8	3.4

## 5630 사이즈 칩 LED

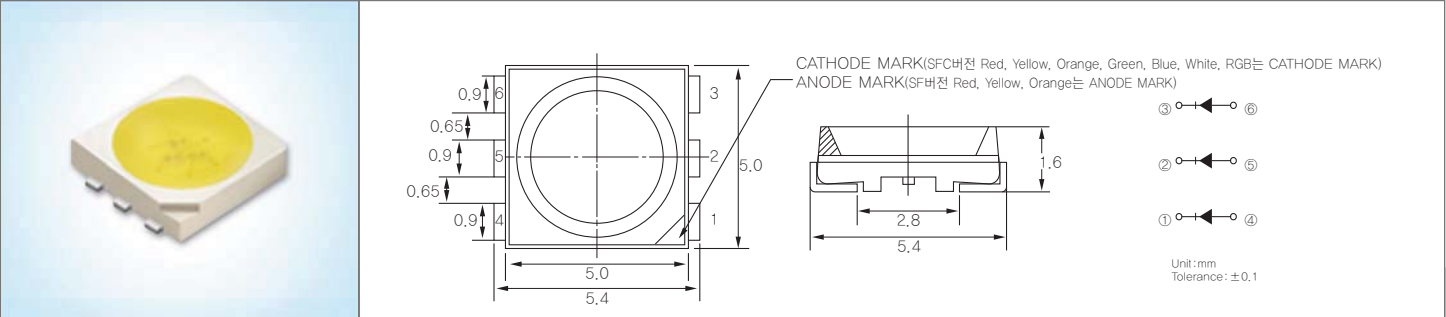
5630 Size SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	60/90/150mA mcd		Forward Voltage(V)	
					min	typ	min	max
5630 사이즈 0.2W(60mA)		CL-SF606USD	630	130	1700	2800	1.8	2.2
		CL-SF606USO	605	130	1700	2800	1.8	2.2
		CL-SF606UHY	590	130	1700	2800	1.8	2.2
		CL-SF606DLG	525	130	3000	5000	2.8	3.4
		CL-SF606DNB	460	130	800	1200	2.8	3.4
		CL-SF606DBW	X:0.29 Y:0.29	130	7000	8000	2.8	3.4
		CL-SF606DWW	X:0.38 Y:0.45	130	7000	8000	2.8	3.4
0.3W(90mA)		CL-SF609DBW	X:0.29 Y:0.29	130	12000	15000	2.8	3.4
		CL-SF609DWW	X:0.38 Y:0.45	130	12000	15000	2.8	3.4
0.5W(150mA)		CL-SF615DBW	X:0.29 Y:0.29	130	18000	22000	2.8	3.4
		CL-SF615DWW	X:0.38 Y:0.45	130	18000	22000	2.8	3.4

# 5050 사이즈 칩 LED

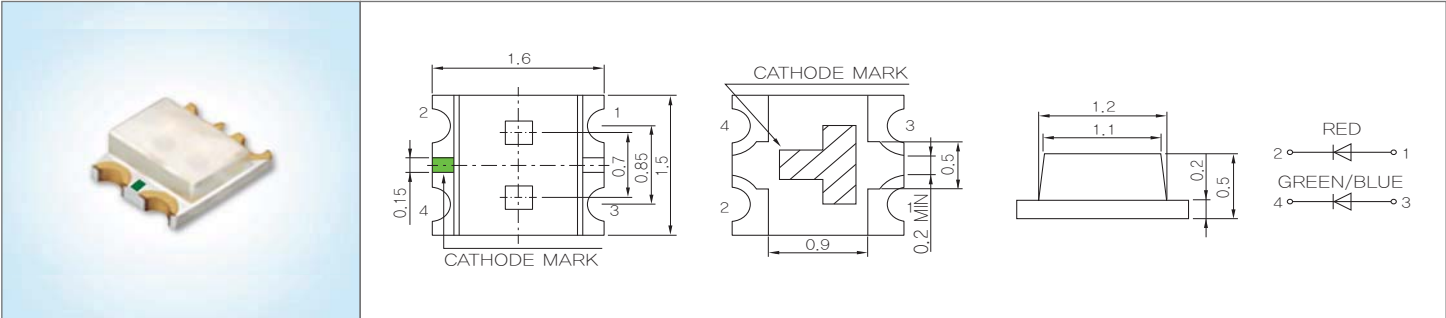
## 5050 Size SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	60/150mA mcd		Forward Voltage(V)	
					min	typ	min	max
5050 사이즈 3칩 0.2W(60mA)		CL-SF506USD	625	130	1700	2800	1.8	2.2
		CL-SF506USO	605	130	1700	2800	1.8	2.2
		CL-SF506UHY	590	130	1700	2800	1.8	2.2
		CL-SF506DLG	525	130	3000	5000	2.8	3.4
		CL-SF506DNB	460	130	800	1200	2.8	3.4
		CL-SF506DBW	X:0.29 Y:0.29	130	7000	8000	2.8	3.4
		CL-SF506DWW	X:0.38 Y:0.45	130	7000	8000	2.8	3.4
		CL-SF506RGB	630	130	600	800	1.8	2.2
			525	130	700	1200	2.8	3.4
			460	130	300	500	2.8	3.4
5050 사이즈 1칩 0.2W(60mA)		CL-SF501DBW	X:0.29 Y:0.29	130	7000	8000	2.8	3.4
		CL-SF501DWW	X:0.38 Y:0.45	130	7000	8000	2.8	3.4
		CL-SF501DNB	460	130	800	1200	2.8	3.4
5050 사이즈 0.5W(150mA)		CL-SF515DBW	X:0.29 Y:0.29	130	12000	16000	2.8	3.4
		CL-SF515DWW	X:0.38 Y:0.45	130	12000	16000	2.8	3.4

# 1615 / 16125 사이즈 2칼라 칩 LED


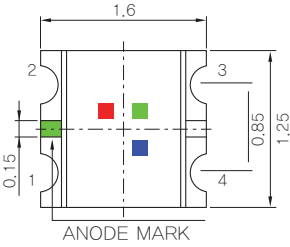
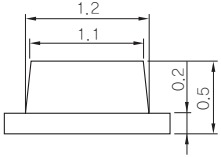
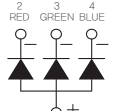



## 1615 / 16125 Size 2Color SMD LED



Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
1615 2칼라		CL-S195VUGC	630	130	70	115	1.8	2.2
			570	130	45	60	1.8	2.2
16125 2칼라		CL-SP0605B-2C	630	130	70	115	1.8	2.2
			460	130	90	150	2.8	3.4
		CL-SP0605G-2C	630	130	70	115	1.8	2.2
			525	130	300	500	2.8	3.4

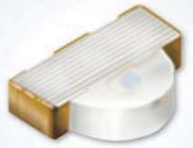
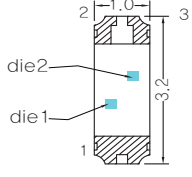
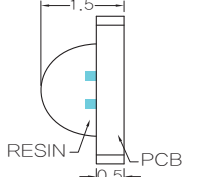
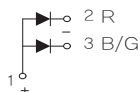









## 16125 사이즈 RGB 풀칼라 칩 LED

16125 Size RGB Color SMD LED

								
	<p>Unit: mm Tolerance: <math>\pm 0.1</math> angle: <math>\pm 5^\circ</math></p>							
Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
16125 RGB 풀칼라		CL-S1615FC-4A	630	130	70	115	1.8	2.2
			460	130	90	150	2.8	3.4
			525	130	300	500	2.8	3.4


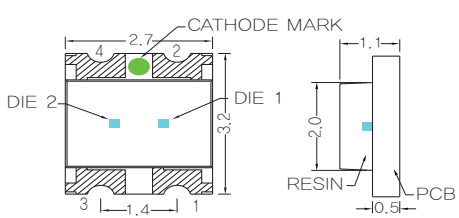
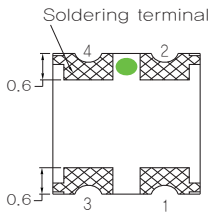
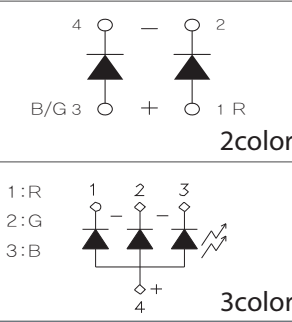









## 3210 사이드뷰 2~3칼라 칩 LED

3210 Side View 2~3 Color SMD LED

	<p>Unit: mm Tolerance: <math>\pm 0.1</math></p> 							
	<p>RESIN</p> <p>PCB</p> <p>Soldering terminal</p>							
Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)	
					min	typ	min	max
3210 사이즈 2칼라		CL-SP115UHR/UYG	630	110	70	115	1.8	2.2
			570	110	45	60	1.8	2.2
		CL-SP115UHR/DNB	630	110	70	115	1.8	2.2
			460	110	90	150	2.8	3.4
		CL-SP115UHR/DLG	630	110	70	115	1.8	2.2
	525		110	400	580	2.8	3.4	
3210 RGB 풀칼라		CL-SP117RGB	630	110	70	115	1.8	2.2
			525	110	400	580	2.8	3.4
			460	110	90	150	2.8	3.4


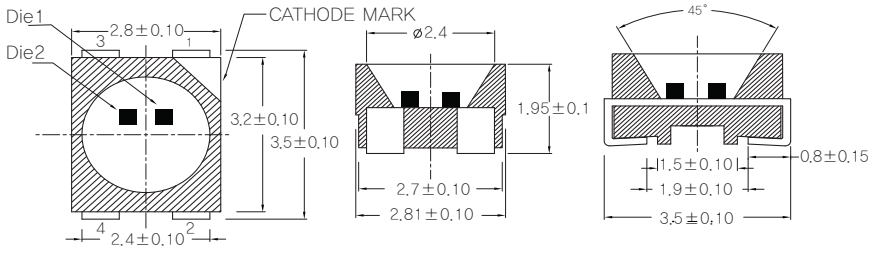
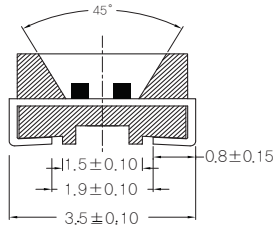
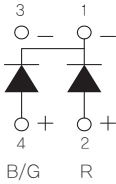






## 3227 사이즈 2~3칼라 칩 LED

3227 Size 2~3 Color SMD LED

			 <p>Unit: mm Tolerance: ±0.1</p>					
	Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)
3227 사이즈 2칼라		CL-SP155UHR/UYG	630	130	70	115	1.8	2.2
			570	130	45	60	1.8	2.2
		CL-SP155UHR/DNB	630	130	70	115	1.8	2.2
			460	130	90	150	2.8	3.4
		CL-SP155UHR/DLG	630	130	70	115	1.8	2.2
			525	130	400	580	2.8	3.4
RGB 3칼라 Full 칼라		CL-SP157RGB	630	130	70	115	1.8	2.2
			525	130	400	580	2.8	3.4
			460	130	90	150	2.8	3.4

## 3528 사이즈 2칼라 칩 LED


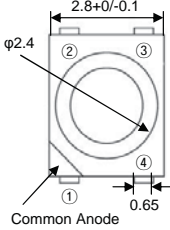
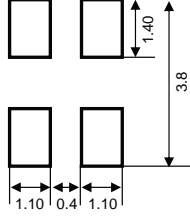
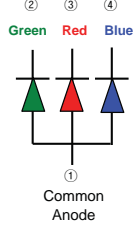
3528 Size 2 Color SMD LED

								
	Type	Color	Part No.	Wave length(nm)	Viewing Angle	20mA mcd		Forward Voltage(V)
3528 사이즈 2칼라		CL-685USD/UYG	630	120	400	600	1.8	2.2
			570	120	200	400	1.8	2.2
		CL-685USD/DNB	630	120	400	600	1.8	2.2
			460	120	300	500	2.8	3.4
		CL-685USD/DLG	630	120	400	600	1.8	2.2
			525	120	700	1000	2.8	3.4



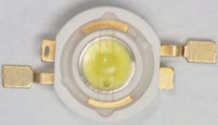
























## 3528 사이즈 RGB 풀칼라 칩 LED

3528 Size RGB Color SMD LED

	(unit : mm) 		Recommended Soldering Pad Design 		Circuit Diagram Cathode 	
	Type Color Part No. Wave length(nm) Viewing Angle 20mA mcd min typ Forward Voltage(V) min max	3528 RGB 풀칼라	CL-SF687RGB	630 525 460	120 120 120	400 600 700 1000 300 500




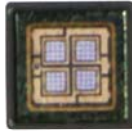

## 파워 LED

Power LED

Image	Type	Color	Part No.	Current	Wave length(nm)	Viewing Angle	Luminous flux		Forward Voltage(V)	
							min	typ	min	max
	1W POWER LED		CL-1W-URB	350mA	625	120	40	50	2.0	2.4
			CL-1W-UYB	350mA	590	120	40	50	2.0	2.4
			CL-1W-UPGB	350mA	525	120	60	75	3.0	3.6
			CL-1W-UBB	350mA	460	120	20	30	3.0	3.6
			CL-1W-UWB	350mA	X:0.30/Y:0.30	120	80	95	3.0	3.6
			CL-1W-WWL	350mA	X:0.38/Y:0.45	120	80	95	3.0	3.6
	3W POWER LED		CL-3W-URB	700mA	625	120	60	80	2.0	2.4
			CL-3W-UYB	700mA	590	120	60	80	2.0	2.4
			CL-3W-UPGB	700mA	525	120	90	140	3.0	3.6
			CL-3W-UBB	700mA	460	120	30	45	3.0	3.6
			CL-3W-UWB	700mA	X:0.30/Y:0.30	120	150	180	3.0	3.6
			CL-3W-WWL	700mA	X:0.38/Y:0.45	120	150	180	3.0	3.6
			CL-3W-RGB	각 350mA	630/525/460	120	50/75/30	R:2~2.4/G,B:3~3.6		
	5W POWER LED		CL-5W-URB	700mA	625	120	100	130	3.8	5.2
			CL-5W-UYB	700mA	590	120	100	130	3.8	5.2
			CL-5W-UPGB	700mA	525	120	200	240	6.0	7.6
			CL-5W-UBB	700mA	460	120	50	70	6.0	7.6
			CL-5W-UWB	700mA	X:0.30/Y:0.30	120	250	320	6.0	7.6
			CL-5W-WWL	700mA	X:0.38/Y:0.45	120	210	260	6.0	7.6
	5W 3535 POWER		CL-SF3535-UWB	1200mA	X:0.30/Y:0.30	120	300	390	3.0	3.6
			CL-SF3535-WWL	1200mA	X:0.38/Y:0.45		270	330	3.0	3.6





## 파워 UV LED

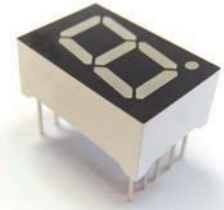
Power UV LED

Image	Type	Part No.	Current	Wave length(nm)	Viewing Angle	Power Dissipation(mW)		Forward Voltage(V)	
						min	typ	min	max
	5630 0.5W	CL-SF615UV (365~410nm)	150mA	365nm, 375nm 385nm, 395nm 405nm, 410nm	120	125	280	2.8	3.4
	5050 1W	CL-SF535UV (365~410nm)	350mA	365nm, 375nm 385nm, 395nm 405nm, 410nm	120	135	310	3.0	3.6
	3535 3W	CL-SF3535UV (365~410nm)	700mA	365nm, 375nm 385nm, 395nm 405nm, 410nm	120	300	400	3.0	3.6
	6868 13W	CL-SF6868UV (365~410nm)	700mA	365nm, 375nm 385nm, 395nm 405nm, 410nm	120	1010	1200	12.5	17.3
	8Ø 1W	CL-1WUV (365~410nm)	350mA	365nm, 375nm 385nm, 395nm 405nm, 410nm	120	145	355	3.0	3.6
	8Ø 3W	CL-3WUV (365~410nm)	700mA			255	515		

## 파워 IR LED

Power IR LED

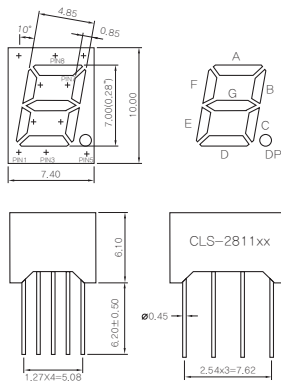
Image	Type	Part No.	Current	Wave length(nm)	Viewing Angle	Power Dissipation(mW)		Forward Voltage(V)	
						min	typ	min	max
	5630 0.5W	CL-SF615IR (830~960nm)	150mA	830nm, 850nm 880nm, 940nm 960nm	120	140	205	1.4	2
	5050 1W	CL-SF535IR (830~960nm)	350mA	830nm, 850nm 880nm, 940nm 960nm	120	165	230	1.4	2
	3535 2W	CL-SF3535IR (830~960nm)	700mA	830nm, 850nm 880nm, 940nm 960nm	120	335	500	1.4	2.4
	8Ø 2W	CL-3W-IRB (830~960nm)	700mA	830nm, 850nm 880nm, 940nm 960nm	120	335	500	1.4	2.4



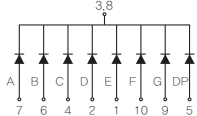
# 1글자 FND 시리즈

1Digit FND Series

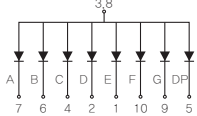
## CLS-2811 Series



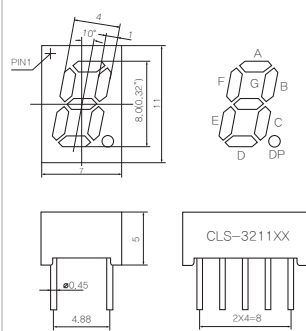
CLS-2811AX



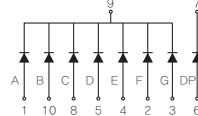
CLS-2811BX



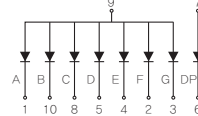
## CLS-3211 Series



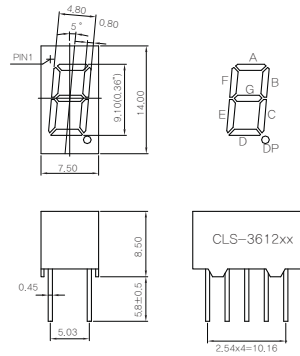
CLS-3211 AX



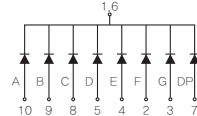
CLS-3211 BX



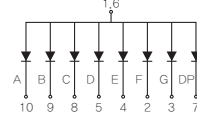
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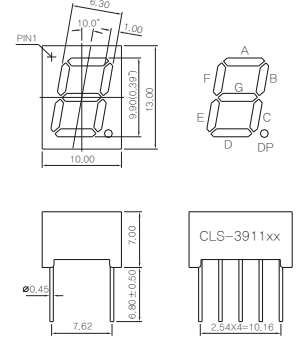
CLS-3612AX



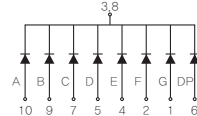
CLS-3612BX



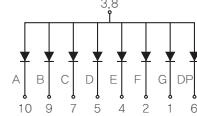
## CLS-3911 Series



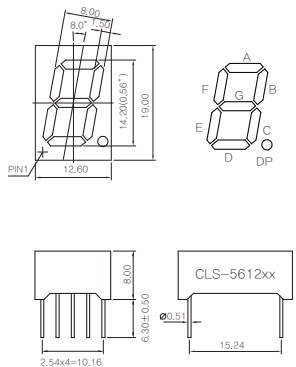
CLS-3911AX



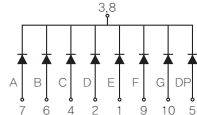
CLS-3911BX



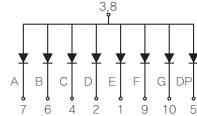
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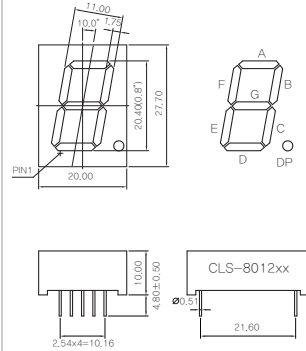
CLS-5612AX



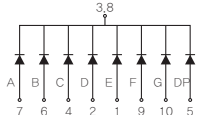
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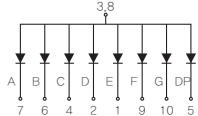
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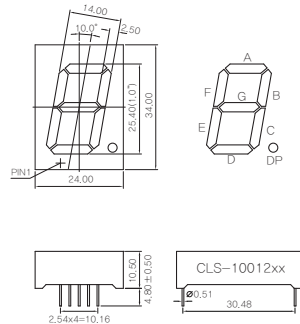
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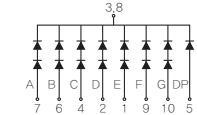
CLS-8012DX



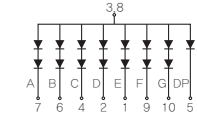
## CLS-10012 Series



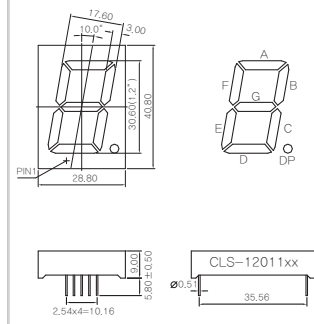
CLS-10012AX



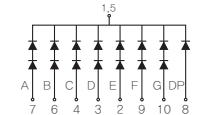
CLS-10012BX



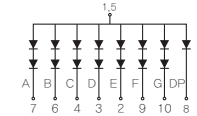
## CLS-12011 Series



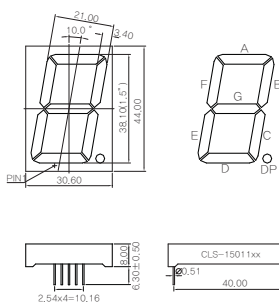
CLS-12011AX



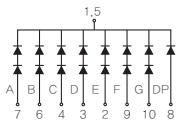
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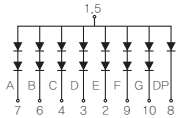
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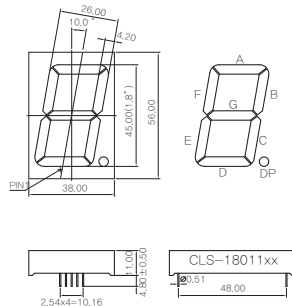
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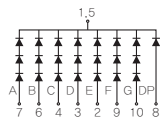
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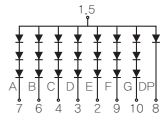
CLS-18011 Series



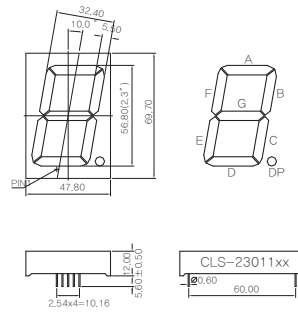
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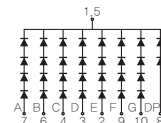
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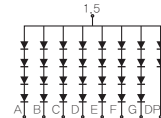
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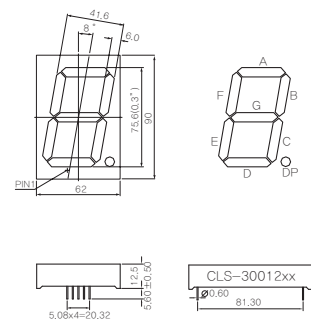
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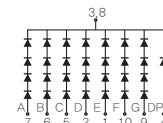
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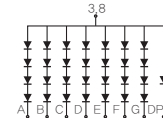
CLS-30012 Series



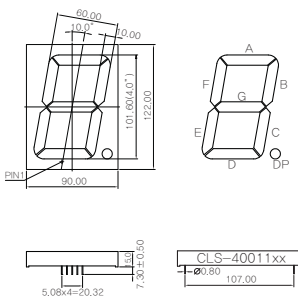
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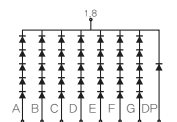
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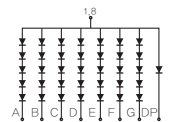
CLS-40011 Series



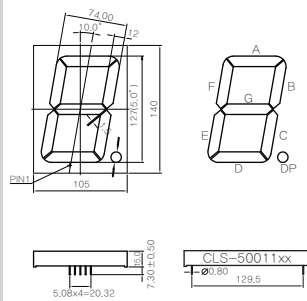
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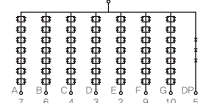
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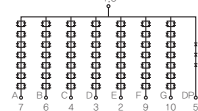
CLS-50011 Series



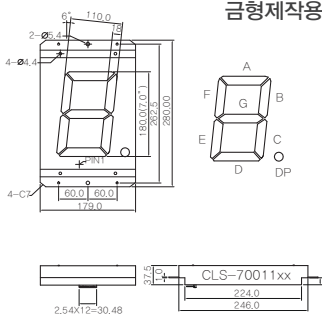
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CLS-50011BX

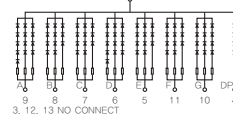


CLS-70011 Series

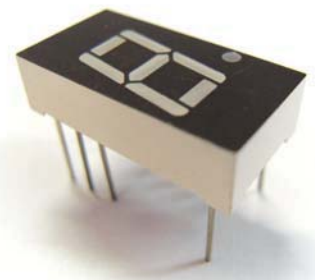
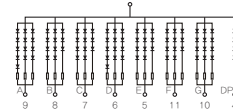


금형제작용

CLS-70011AX



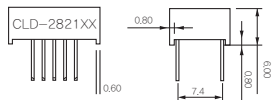
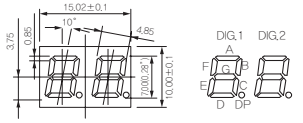
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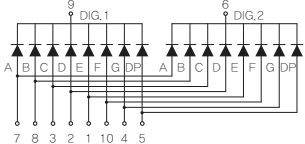
## 2글자 FND 시리즈

2Digit FND Series

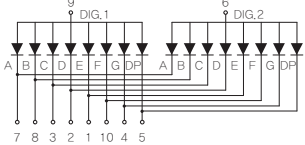
### CLD-2821 Series



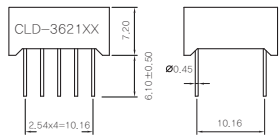
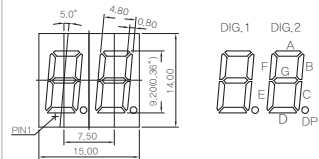
#### CLD-2821AX



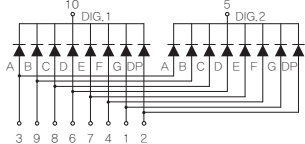
#### CLD-2821BX



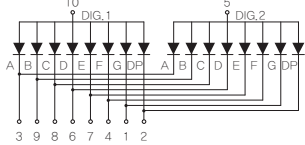
### CLD-3621 Series



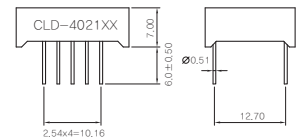
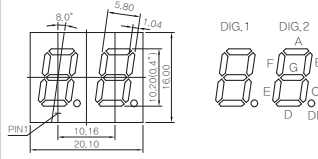
#### CLD-3621AX



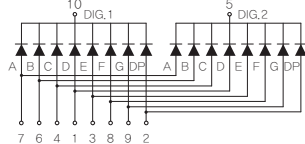
#### CLD-3621BX



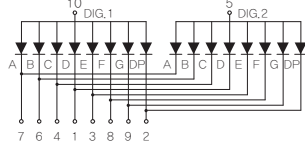
### CLD-4021 Series



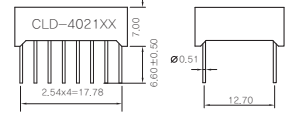
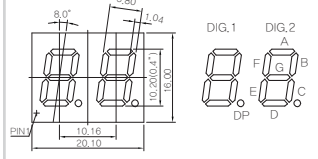
#### CLD-4021AX



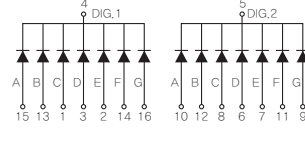
#### CLD-4021BX



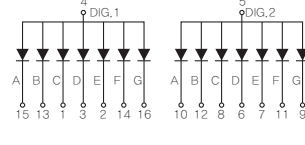
### CLD-4021 Series



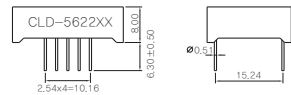
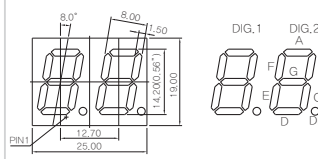
#### CLD-4021CX



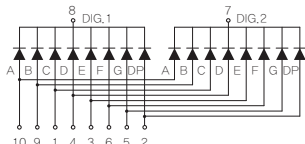
#### CLD-4021DX



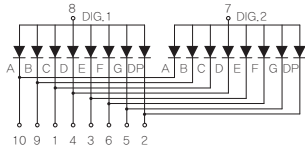
### CLD-5622 Series



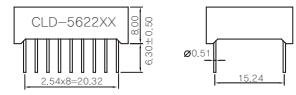
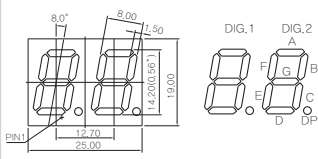
#### CLD-5622AX



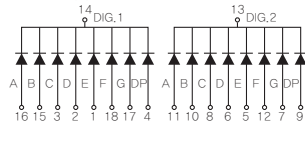
#### CLD-5622BX



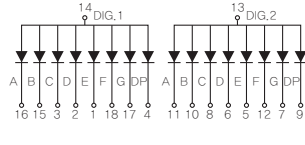
### CLD-5622 Series



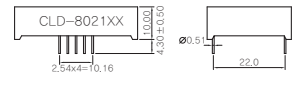
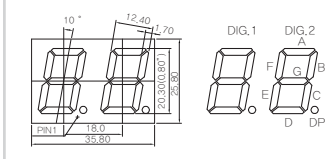
#### CLD-5622EX



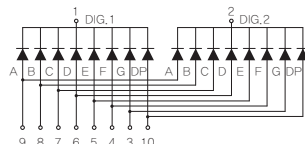
#### CLD-5622FX



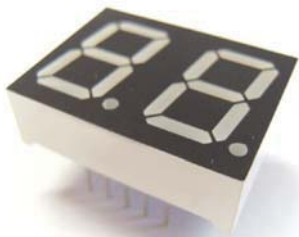
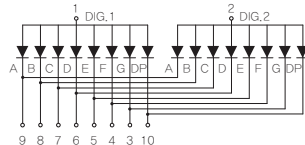
### CLD-8021 Series

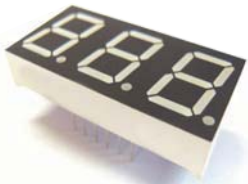


#### CLD-8021AX



#### CLD-8021BX

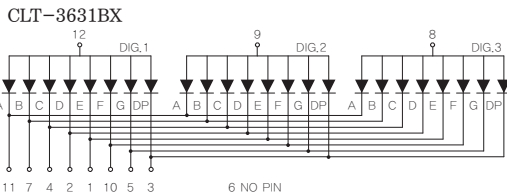
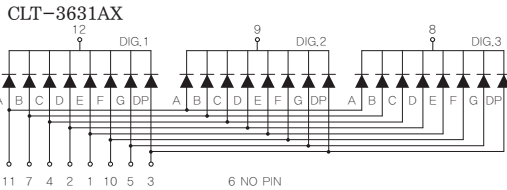
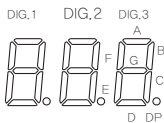
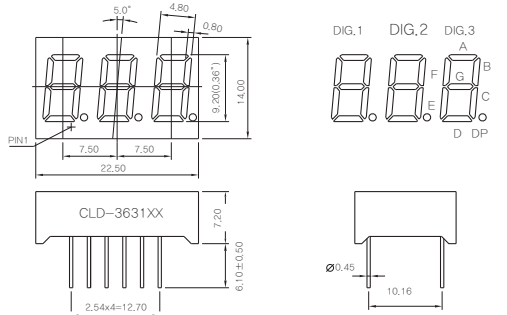




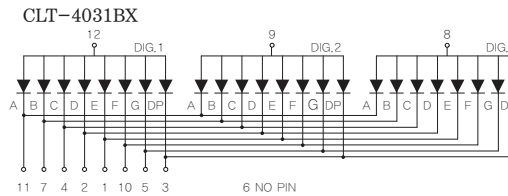
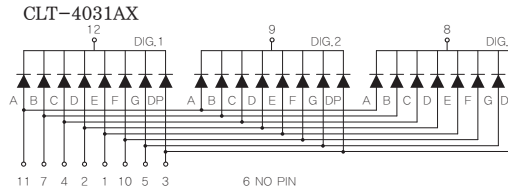
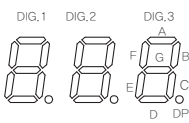
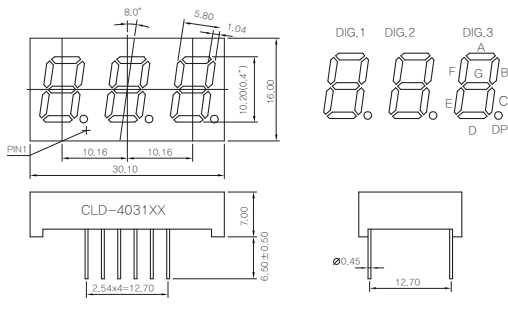
# 3글자 & 바타입 FND 시리즈

## 3Digit & BAR Type FND Series

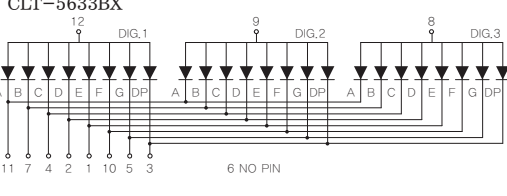
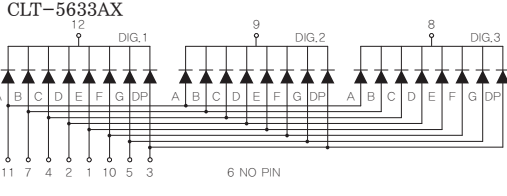
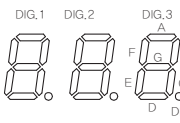
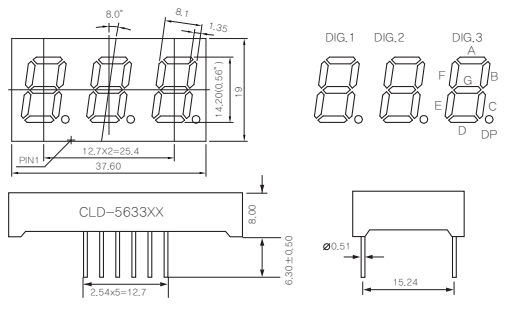
### CLT-3631 Series



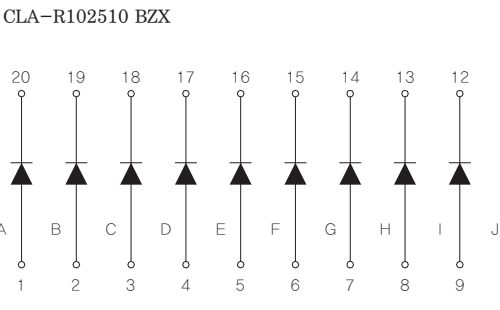
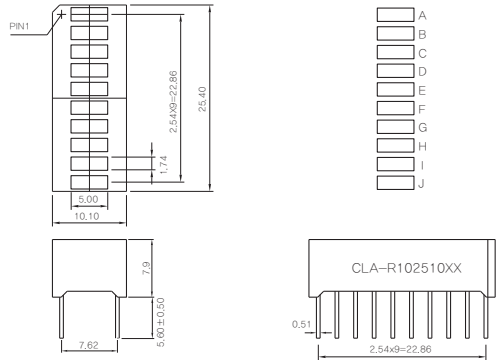
### CLT-4031 Series



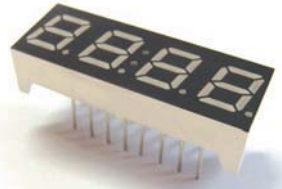
### CLT-5633 Series



### CLA-R102510 Series



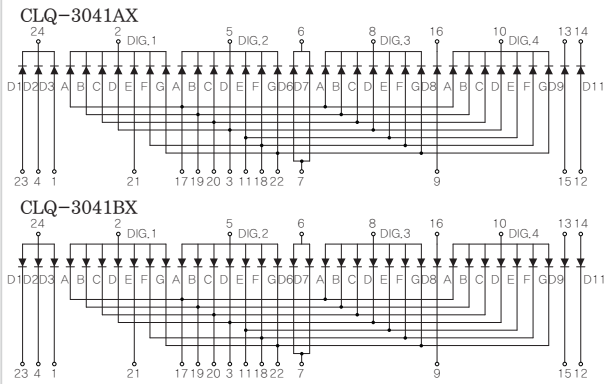
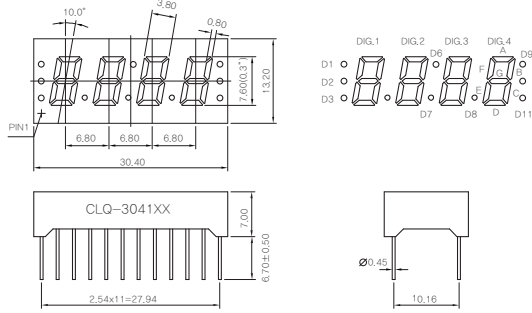




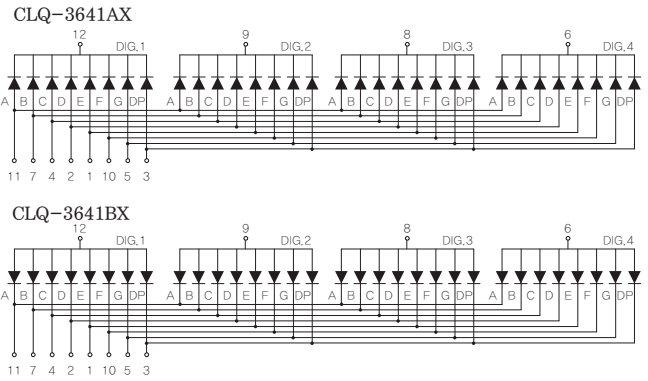
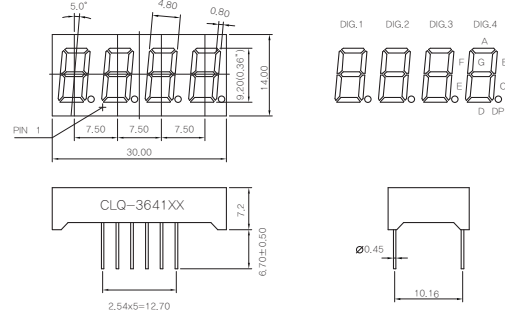
## 4글자 FND 시리즈

### 4Digit FND Series

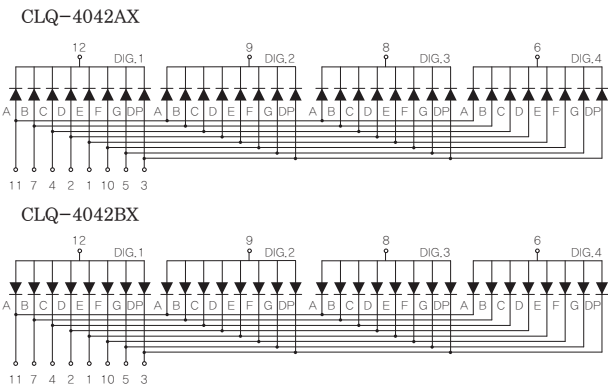
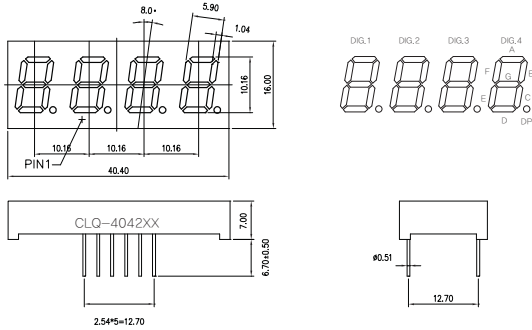
#### CLQ-3041 Series



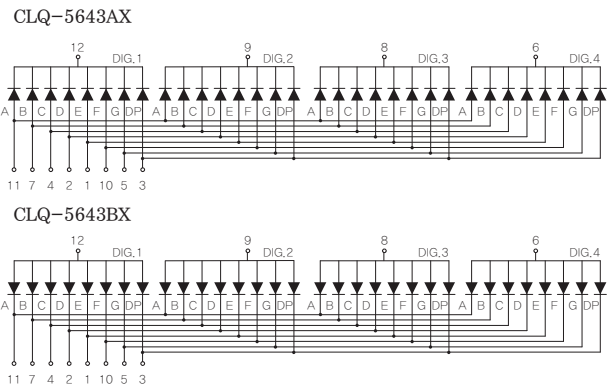
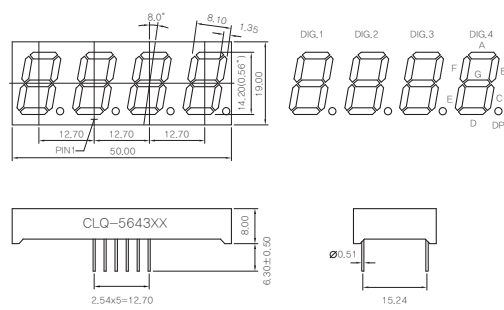
#### CLQ-3641 Series



#### CLQ-4042 Series



#### CLQ-5643 Series



**방수형 SMPS**  
WATERPROOF SMPS

60W 방수형	제품 스펙	
	모델명 : SMART-60W $T_c = 70^{\circ}\text{C} - 20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방 식 : 정전압형 방식 인 증 : KC	정격입력전압 : AC220 / 60Hz 정격입력전력 : 60W 정격2차전압 : DC12V 정격 2차 전류 : 4A
100W 방수형	제품 스펙	
	모델명 : UP100S12W2S $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방 식 : 정전압형 방식 인 증 : KC, CE, IP68	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 100W 정격2차전압 : DC12V 정격 2차 전류 : 7.1A
150W 방수형	제품 스펙	
	모델명 : UP150S12W2S $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방 식 : 정전압형 방식 인 증 : KC, CE, IP68	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 150W 정격2차전압 : DC12V 정격 2차 전류 : 10.8A
200W 방수형	제품 스펙	
	모델명 : UP200S12W2S $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방 식 : 정전압형 방식 인 증 : KC, CE, IP68	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 200W 정격2차전압 : DC12V 정격 2차 전류 : 13.3A
300W 방수형	제품 스펙	
	모델명 : UP300S12W2S $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방 식 : 정전압형 방식 인 증 : KC, CE, IP68	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 300W 정격2차전압 : DC12V 정격 2차 전류 : 20A
400W 방수형	제품 스펙	
	모델명 : SMART-400W $T_c = 70^{\circ}\text{C} - 20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방 식 : 정전압형 방식 인 증 : KC	정격입력전압 : AC220 / 60Hz 정격입력전력 : 400W 정격2차전압 : DC12V 정격 2차 전류 : 33.3A

## 일반형 SMPS



100W 일반형	제품 스펙	
	모델명 : UP100S12LS $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방식 : 정전압형 방식 인증 : KC	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 100W 정격2차전압 : DC12V 정격 2차 전류 : 8.4A
150W 일반형	제품 스펙	
	모델명 : UP150S12LS $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방식 : 정전압형 방식 인증 : KC	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 150W 정격2차전압 : DC12V 정격 2차 전류 : 12.5A
200W 일반형	제품 스펙	
	모델명 : UP200S12LS $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방식 : 정전압형 방식 인증 : KC	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 200W 정격2차전압 : DC12V 정격 2차 전류 : 16.7A
350W 일반형	제품 스펙	
	모델명 : UP350S12LS $T_c = -20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ 방식 : 정전압형 방식 인증 : KC	정격입력전압 : AC200~240V 47~63Hz 정격입력전력 : 350W 정격2차전압 : DC12V 정격 2차 전류 : 29A
방수케이스	제품 스펙	
	방수가 안되는 일반형타입의 SMPS를 외부 설치가 가능하게 하는 SMPS 방수케이스이며 생활방수(눈, 비, 등등) 가능	



찾으시는 전력용량(W)이 없으시면 문의 주시면 친절히 상담해 드리겠습니다.  
 예) 30W, 60W, 500W, 700W, 1000W, 1200W 등



## 4mm 사이즈 PCB LED바 (방수타입 가능)

4mm Size PCB LED BAR

450-27	제품 스펙	
	<p>폭 : 4mm</p> <p>길이 : 513mm</p> <p>커팅단위 : 3발씩 커팅 가능</p> <p>LED수량 : 27구 (5630)</p> <p>화이트 계열 색온도 : 2,600~40,000K</p>	<p>전압 : DC12V</p> <p>소비전력 : 8.1W (500mm당)</p> <p>동작온도 : -30 ~ 50°C</p> <p>색상 : </p> <p>주광색, 전구색, 초록색, 빨간색, 파란색, 노란색, 오렌지색</p>

## 5mm 사이즈 PCB LED바 (방수타입 가능)

5mm Size PCB LED BAR

550-51	제품 스펙	
	<p>폭 : 5mm</p> <p>길이 : 500mm</p> <p>커팅단위 : 3발씩 커팅 가능</p> <p>LED수량 : 51구 (3528)</p> <p>화이트 계열 색온도 : 2,600~40,000K</p>	<p>전압 : DC12V</p> <p>소비전력 : 7W (500mm당)</p> <p>동작온도 : -30 ~ 50°C</p> <p>색상 : </p> <p>주광색, 전구색, 초록색, 빨간색, 파란색, 노란색, 오렌지색</p>





## 6mm 사이즈 PCB LED바 (방수타입 가능)

6mm Size PCB LED BAR

650-30	제품 스펙	
	<p>폭 : 6mm</p> <p>길이 : 500mm</p> <p>커팅단위 : 1발씩 커팅단위</p> <p>LED수량 : 30구 (5050)</p> <p>화이트 계열 색온도 : 2,600~40,000K</p>	<p>전압 : DC12V</p> <p>소비전력 : 6W (500mm당)</p> <p>동작온도 : -30 ~ 50°C</p> <p>색상 : </p> <p>주광색, 전구색, 초록색, 빨간색, 파란색, 노란색, 오렌지색</p>
CL650	제품 스펙	
	<p>폭 : 6mm</p> <p>길이 : 500mm</p> <p>커팅단위 : 12V-3발 / 24V-6발 커팅단위</p> <p>LED수량 : 30구 (5050)</p> <p>화이트 계열 색온도 : 2,600~40,000K</p>	<p>전압 : DC12V / DC24V</p> <p>소비전력 : 6W (500mm당)</p> <p>동작온도 : -30 ~ 50°C</p> <p>색상 : </p> <p>주광색, 전구색, 파란색, 초록색</p>

## 7mm 사이즈 PCB LED바 (방수타입 가능)

7mm Size PCB LED BAR

750-50	제품 스펙	
	<p>폭 : 7mm 길이 : 500mm 커팅단위 : 1발씩 커팅단위 LED수량 : 50구 (5050) 화이트 계열 색온도 : 2,600~40,000K</p>	<p>전압 : DC12V 소비전력 : 10W (500mm당) 동작온도 : -30 ~ 50°C 색상 :  주광색, 전구색, 파란색, 초록색</p>
750-12-RGB	제품 스펙	
	<p>폭 : 7mm 길이 : 500mm 커팅단위 : 12V-3발 / 24V-6발 커팅단위 LED수량 : 30구 (5050)</p>	<p>전압 : DC12V / DC24V 소비전력 : 6W (500mm당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라</p>



## 10mm 사이즈 PCB LED바

10mm Size PCB LED BAR

1050-RGB	제품 스펙	
	<p>폭 : 10mm 길이 : 500mm 커팅단위 : 12V-3발 / 24V-6발 커팅단위 LED수량 : 30구 (5050)</p>	<p>전압 : DC12V / DC24V 소비전력 : 6W (500mm당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라</p>
CON1RS-1030-RGB	제품 스펙	
	<p>폭 : 10mm 길이 : 300mm 커팅단위 : 3발씩 커팅 가능 LED수량 : 18구 (5050) 특 징 : RGB컨트롤러 내장형 (CON1RS기능)</p>	<p>전압 : DC12V 소비전력 : 4W (300mm당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라</p>

## 13mm 사이즈 PCB LED바 (파노라마형)

13mm Size PCB LED BAR

1350-PANORAMA	제품 스펙	
	<p>폭 : 13mm 길이 : 500mm 커팅단위 : 3발씩 커팅 가능 LED수량 : 21구 (5050)</p>	<p>전압 : DC12V 소비전력 : 6W (500mm당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라 파노라마</p>



## 플렉시블형 LED바 (방수타입 가능)

Flexible Type LED BAR

Images



<b>제품명</b>	1050-Flexible-(R/G/B/Y/A/W/WW)	
<b>스펙</b>	폭 : 10mm 길이 : 5000mm 커팅단위 : 3발씩 커팅단위 LED수량 : 300구 (5050)	전압 : DC12V 소비전력 : 60W (1m당 12W) 동작온도 : -30 ~ 50°C 색상 : <span style="display: inline-block; width: 10px; height: 10px; background-color: white; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #FFD700; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #008000; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #FF0000; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #0000FF; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #FFA500; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #FF4500; border: 1px solid black;"></span> 주광색, 전구색, 초록색, 빨간색, 파란색, 노란색, 오렌지색

<b>제품명</b>	1050-Flexible-RGB	
<b>스펙</b>	폭 : 10mm 길이 : 5000mm 커팅단위 : 3발씩 커팅단위 LED수량 : 300구 (5050)	전압 : DC12V 소비전력 : 60W (1m당 12W) 동작온도 : -30 ~ 50°C 색상 : <span style="display: inline-block; width: 10px; height: 10px; background-color: #FF0000; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #008000; border: 1px solid black; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: #0000FF; border: 1px solid black;"></span> RGB풀칼라











## 모듈형 채널싸인

Module Type Channel sign

<p>CL-01</p> 	<p>제품 스펙</p>	
	<p>규격 : 1구형 모듈 선 기장 : 40mm 휘도 : 7,000mcd 화이트 계열 색온도 : 2600K ~ 4000K</p>	<p>전압 : DC12V 소비전력 : 0.24W (1개당) 동작온도 : -30 ~ 50°C 색상 :  주광색, 전구색, 파란색, 초록색</p>
<p>CL-03</p> 	<p>제품 스펙</p>	
	<p>규격 : 3구형 모듈 선 기장 : 80mm 휘도 : 색상마다 다름 화이트 계열 색온도 : 2600K ~ 4000K</p>	<p>전압 : DC12V 소비전력 : 0.72W (1개당) 동작온도 : -30 ~ 50°C 색상 :  주광색, 전구색, 초록색, 빨간색, 파란색, 노란색, 오렌지색</p>
<p>CL-03RANDOM</p> 	<p>제품 스펙</p>	
	<p>규격 : 3구형 단색 뱅뱅이 모듈 선 기장 : 80mm 휘도 : 18,000mcd 화이트 계열 색온도 : 2600K ~ 4000K</p>	<p>전압 : DC12V 소비전력 : 0.72W (1개당) 동작온도 : -30 ~ 50°C 색상 :  주광색, 전구색, 초록색, 빨간색, 파란색, 노란색, 오렌지색</p>
<p>CL-03RGB</p> 	<p>제품 스펙</p>	
	<p>규격 : 3구형 풀칼라 RGB 모듈 선 기장 : 80mm 휘도 : 색상마다 다름</p>	<p>전압 : DC12V 소비전력 : 0.72W (1개당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라</p>
<p>CL-03RGBP</p> 	<p>제품 스펙</p>	
	<p>규격 : 3구형 풀칼라 파노라마 모듈 선 기장 : 80mm 휘도 : 색상마다 다름</p>	<p>전압 : DC12V 소비전력 : 0.72W (1개당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라 파노라마</p>
<p>CL-04RGBP</p> 	<p>제품 스펙</p>	
	<p>규격 : 4구형 풀칼라 파노라마 모듈 선 기장 : 95mm 휘도 : 색상마다 다름</p>	<p>전압 : DC12V 소비전력 : 1W (1개당) 동작온도 : -30 ~ 50°C 색상 :  RGB풀칼라 파노라마</p>

**RGB 컨트롤러**  
RGB Controller

특허 : 제 10-1249036호

CL-CON1RS	CL-CON1	CL-CON2S뱅뱅이	CL-CON2S
			
입력전압 : DC12V 용 량 : 60W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 리모컨 규 격 : 단채널, 저용량 소형	입력전압 : DC12V 용 량 : 60W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 스위치, 리모컨 규 격 : 단채널, 저용량	입력전압 : DC12V 용 량 : 180W 기능 : 단색 순차적 디밍&점멸 제어방법 : 스위치 규 격 : 단채널	입력전압 : DC12V 용 량 : 200W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 스위치 규 격 : 단채널
CL-CON2	CL-CON3	CL-CON4	CL-CON5
			
입력전압 : DC12~24V 겸용 용 량 : 300W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 스위치, 리모컨 규 격 : 단채널	입력전압 : DC12~24V 겸용 용 량 : 1200W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 스위치, 리모컨 규 격 : 단채널, 고풍량	입력전압 : DC12V 용 량 : 1500W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 스위치, 리모컨 규 격 : 5채널 (채널당 300W)	입력전압 : DC12V 용 량 : 3000W 기능 : RGB색상 제어, 디밍&점멸 제어방법 : 스위치, 리모컨 규 격 : 10채널 (채널당 300W)




**CL컨트롤러 특징**



ISO9001 / ISO14001등을 획득하고, 특허를 받은 컨트롤러 입니다. 리모컨을 이용하여 손 쉬운 조작방법이 가능하며 DMX512통신 방식의 기술을 접목하여 1~80채널까지 제어가 가능 합니다. (CON4기준)  
또한, W(용량)은 무제한으로 증폭이 가능하며, 원하는 공간에 아름다운 LED조명을 컨트롤 하실 수 있습니다.

## 파노라마 컨트롤러

Panorama Controller

CL-PANORAMA1	CL-PANORAMA2	CL-REPEATER
		
입력전압 : DC12V 용 량 : 10000W 기능 : 색상 및 패턴 컨트롤 제어방법 : 스위치, 리모컨 규 격 : 파노라마 전용 컨트롤러	입력전압 : DC12V 용 량 : 8000W 기능 : 동영상가능 제어방법 : 스위치, 리모컨 규 격 : 파노라마 전용 컨트롤러	기능 : 신호 증폭기기 신 호 : 1Km까지 증폭가능 제어방법 : 스위치 (송신 / 수신) 규 격 : 파노라마 컨트롤러 신호값 증폭
CL-PANORAMA2 제품은 별도의 프로그램 설계가 필요한 제품입니다. 동영상, 원하시는 효과, 색상 등 맞춤형 설계가 가능하며, 본사로 상담하시길 바랍니다.		

## 디머

Dimmer

## 기타

Etc

DIMMER	CL-DIMMER	컨트롤러 방수케이스	리모컨
			
입력전압 : DC12~24V 겸용 용 량 : 100W 기능 : LED조명 밝기조절 제어 제어방법 : 스위치	입력전압 : DC12~24V 겸용 용 량 : 300W 기능 : LED조명 밝기조절 제어 제어방법 : 스위치, 리모컨	외부 설치용 방수케이스 생활방수 가능 (눈, 비, 등등)	RGB, 파노라마 컨트롤러 디머 등 조작 리모컨





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