



奥伦德
ORIENT

深圳市奥伦德元器件有限公司

公司地址：深圳市龙岗区黄阁路天安数码城4栋3楼A座

Add:3rd Floor,Block A,No.4 Building,Tian'an Cyber Park,Huangge Rd,LongGang Dist,Shenzhen,GD.,China.

Tel: 86-755-29980661/29681816

Fax:86-755-29980950

E-Mail:saleselec@orient-opto.com

<http://www.orient-opto.com>

P. C.: 518172

华东办事处

地址：江苏昆山市黄河北路绣衣东村51东202室

张光明13358058505 肖艳芳13382158507

电话：+86-512-5732-7357 传真：+86-512-57324468

邮编：215300

光耦器件专家
专业 专心 专注

深圳市奥伦德元器件有限公司

SHENZHEN ORIENT COMPONENTS CO., LTD.

深圳市奥伦德元器件有限公司是一家专业研发制造光电芯片及光耦的国家级高新技术企业，掌握核心芯片技术，拥有完整的IDM产业链结构。

奥伦德品牌光电耦合器及光电器件现已发展为国产高端品牌，分晶体管输出、施密特触发器、可控硅光耦、高速隔离运放光耦、PhotoMos SSR光耦、IGBT隔离驱动、电流电压传感器、线性光耦及光电传感器9大类别，逾400多个品种型号，为通讯、电力、家电、车辆、新能源等各个行业提供服务。基本实现绝大部分场景应用能够PIN TO PIN对标欧、美、日系光耦。现阶段产销量综合位列国内前茅，通过公司未来5年持续扩产，将奥伦德品牌打造成为国际光耦知名品牌。

2021年，作为光耦行业龙头品牌，评选为“国家级专精特新小巨人”企业。

Shenzhen Orient Components Co., Ltd. is a national high-tech enterprise specializing in R&D, manufacturing of optoelectronic chips and optocouplers. Orient has mastered the core technology of chips and has a complete IDM industrial chain.

Orient's optocouplers and optoelectronic devices have developed into domestic high-end products, including 9 categories and more than 400 models: transistor, Schmidt trigger, thyristor optocoupler, high-speed isolation optocoupler, PhotoMos SSR optocoupler, IGBT isolation optocoupler, current and voltage sensor, linear optocoupler and optoelectronic sensor. All of them provide sevices to communication, home appliances, vehicles, new energy and other industries, and basically match with European, American and Japanese optocouplers in application. Currently, the overall production and sales of Orient rank at the top in China. With the continuous expansion of production in the next five years, Orient strives for a well-known international optocoupler brand.

In 2021, as the leading brand in the optocoupler industry, Orient was selected as one of the national "Specialized, Fined, Peculiar and Innovative" enterprises.



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Type	Orient	Avago	Onsemi/ Fairchild	Toshiba	Omron	Vishay	Liteon	EL	Cosmo	Sharp
Transistor	ORPC816	HCPL-817	FOD617	TLP621 TLP781 TLP785	PS2501-1 PS2521-1 PS2561-1 PS2571-1 PS2581-1	SFH61X TCET1100 VO610A SFH615A SFH617	LTV-816	EL816	K1010	PC121
	ORPC817	HCPL-817	FOD817	TLP521-1	PS2501-1 PS2521-1 PS2561-1 PS2571-1 PS2581-1	K817P	LTV-817	EL817		PC120 PC817
	ORPC851						LTV-851			PC851
	ORPC827	ACPL-827	MCT6 MCT61 MCT62	MCT9001	TLP521-2 TLP621-2	PS2501-2 PS2521-2 PS2561L-2	ILD615-2 ILQ615-2	LTV-827	EL827	PC827
	ORPC847	ACPL-847		TLP521-4 TLP621-4	PS2501-4 PS2521-4	ILQ610 ILD615 ILQ615 ILD621	LTV-847	EL847	KP1040	PC847
	OR3H7	ACPL-217	FODM217	TLP291	PS2801-1	VOS617	LTV-217	EL3H7		PC3H7
	OR3H7-4	ACPL-247		TLP291-4	PS2801-4	TCMT4100	LTV-247			PC3Q67Q
	OR357	HCPL-181	FODM121 FODM124 FODM2701	TLP185 TLP181	PS2701-1 PS2711-1 PS2732-1 PS2761-1	SFH690T	LTV-356T LTV-357T	EL357	KPC357NT	PC357 PC367
	OR-10XX		FODM1007 FODM1008 FODM1008	TLP385 TLP10383	PS2381-1	VOL618A VOL617A	LTV-10XX	EL10XX	K101X	
	OR-205		MOCD208M			VOD205T	LTV205	ELD205		
	ORD206		MOCD208M			VOD206T	LTV206	ELD206		
	ORD207		MOCD207M			VOD207T	LTV207	ELD207		
	ORD211		MOCD211M			VOD211T	LTV200	ELD211		
	ORD213		MOCD213M			VOD213T	LTV208	ELD213		
	ORD217		MOCD217M			VOD217T	LTV208	ELD217		
	OR4N35 OR4N36 OR4N37 OR4N38	4N35 CNY17	4N35M 4N36M 4N37M 4N38M	4N3X TLP531	SFH601 CNY17 4N3X	4N3X CNY17	4N3X H11AX	K2010		
	OR4N25 OR4N26 OR4N27 OR4N28	4N25 CNY17	4N25M 4N26M 4N27M 4N28M	4N2X TLP531		SFH601 CNY17 4N2X	4N2X CNY1	4N2X H11AX	K2010	
Transistor AC Input	ORPC814	HCPL-814	FOD814	TLP620 TLP626	PS2505-1 PS2525-1 PS2565-1	SFH620A SFH628A	LTV814	EL814	K3010	PC814
	ORPC824	ACPL-824		TLP620-2 TLP626-2	PS2505-2 PS2525-2 PS2565-2	ILQ620-2	LTV824		KP3040	PC824
	ORPC844	ACPL-844		TLP620-4 TLP626-4	PS2505-4 PS2525-4 PS2565-4	ILQ620	LTV844		KP3040	PC844
	OR3H4	ACPL-214	FODM214	TLP290	PS2805-1	VOS627	LTV214	EL-3H4		PC3H4
	OR3H4-4	ACPL-244		TLP292-4	PS2805-4	TCMT4600	LTV244			
	OR354	HCPL-354	FODM2705	TLP126 TLP182 TLP180	PS2705-1 PS2715-1 PS2765-1	SFH691	LTV354T	EL354	KPC354NT	PC354 PC364
	ORH11AX		H11AA1M H11AA4M			H11AA1		H11AAX		

Type	Orient	Avago	Onsemi/ Fairchild	Toshiba	Omron	Vishay	Liteon	EL	Cosmo	Sharp
Darlington	ORPC815	FOD815	TLP523	PS2502-1 PS2562-1	K815P SFH655A TCED1100	LTV815	EL815	KPC815	PC815 PC81510	
	ORPC852	FOD852	TLP627M	PS2533 PS2535	SFH619A	LTV852	EL852		PC852	
	ORPC825		TLP523-2	PS2802-2 PS2502-2	K815P TCED2100	LTV825	EL825	KPC825	PC825	
	ORPC845		TLP523-4	PS2802-4 PS2502-4	TCED4100	LTV845		KPC845	PC845	
	OR3H5		PS2802-1	TCMD1000	LTV215	EL-3H5		PC3H5		
	OR245		PS2802-4	TCMD4000						
	OR355		PS2702-1		LTV355T		KPC355	PC355 PC365		
	OR352	FODM352	TLP187 TLP127	PS2733-1		EL452-G				
	OR4N29 OR4N30 OR4N31 OR4N32 OR4N33	4N29M 4N30M 4N32M 4N33M	TLP571		4N32 4N33	4N29 4N30 4N31 4N32 4N33				

Type	Orient	Onsemi/ Fairchild	Toshiba	Vishay	Liteon	EL	Cosmo	Sharp
Triac	ORT302X					ELT3021 ELT3022 ELT3023		
	ORT304X					ELT3041 ELT3042 ELT3043		
	ORT305X		TLP360J		LTV-8050 LTV-8051 LTV-8052 LTV-8053	ELT3051 ELT3052 ELT3053	KMOC3011	PC3SH11YFZAH PC3SH13YFZAH
	ORT306X		TLP361J TLP363J	LTV-8061 LTV-8062 LTV-8063	ELT3061 ELT3062 ELT3063	KMOC3012 PC3SH21YFZBH		
	ORT308X			VOT8024		ELT3081 ELT3082 ELT3083		
	ORM302X	FODM3022 FODM3023	TLP160G		LTV-3021 LTV-3022 LTV-3023	ELM3022 ELM3023 ELM3024	KTLP160G	
	ORM304X		TLP161G		ELM3042 ELM3043 ELM3044	KTLP161G		
	ORM305X	FODM3052 FODM3053	TLP160J TLP165J TLP260J TLP265J TLP267J	VOM3052 VOM3053 VOM160	LTV-3051 LTV-3052 LTV-3053	ELM3052 ELM3053 ELM3054	KTLP160J KTLP165J KTLP260J	S2S3A00F S2S5A00F S2S5FA0F
Triac	ORM306X	FODM3062 FODM3063	TLP161J TLP163J TLP166J TLP168J TLP261J TLP266J TLP268J		LTV-3061 LTV-3062 LTV-3063	ELM3062 ELM3063 ELM3064	KTLP161J KTLP166J KTLP168J	S2S4A00F
	ORM308X	FODM3082 FODM3083		VOT8024AM	LTV-3080 LTV-3081 LTV-3082 LTV-3083	ELM3082 ELM3083 ELM3084	KTLP161L	
	ORMOC301X	MOC3010M MOC3011M MOC3012M	K3010P K3011P K3012P					
	ORMOC302X	MOC3020M MOC3021M MOC3022M MOC3023M	TLP560G/J TLP302X	K3020P K3021P K3022P K3023P	VO3020 VO3021 VO3022 VO3023	MOC3020 MOC3021 MOC3022 MOC3023	EL3021 EL3022 EL3023	KMOC3021 KMOC3022 KMOC3023 S11MD7 S11MD8 S11MD9 PC2SD11NTZ
	ORMOC304X	MOC3041M MOC3042M MOC3043M	TLP561G TLP304X		EL3041 EL3042 EL3043	KMOC3041 KMOC3042 KMOC3043	S21MD4TV	
	ORMOC305X	MOC3051M MOC3052M MOC3053M	TLP560J TLP3052A	VO3052 VO3053	MOC3051 MOC3052 MOC3053	EL3051 EL3052 EL3053	KMOC3051 KMOC3052 KMOC3053	PC3SD11 S21MD3V S21ME5
	ORMOC306X	MOC3061M MOC3062M MOC3063M	TLP561X TLP3061(S) TLP3062(S) TLP3062A TLP3063(S) TLP3064(S) TLP668J(S)	VO3062 VO3063	MOC3061 MOC3062 MOC3063	EL3061 EL3062 EL3063	KMOC3061 KMOC3062 KMOC3063	PC3SD21X S21MD4TV S21MD7T S21MD8T S21MD9T S21MD3TV S21ME6
	ORMOC307X	MOC3071M MOC3072M MOC3073M	TLP3073					
	ORMOC308X	MOC3081M MOC3082M MOC3083M	TLP669L TLP3083 TLP3782(S) TLP3783(S)		MOC3081 MOC3082 MOC3083	EL3081 EL3082 EL3083		

Type	Orient	Avago	Onsemi	Toshiba	Renesa	Vishay	Liteon	EL	Sharp
High-speed	ORM501	ACPL-M50L	FODM452 FODM453		PS8101	VOM452 VOM453	LTV-M501	ELM453 ELM453L	PC457LONIP0F
	ORM601	ACPL-M61M		PS9117A			LTV-M601	ELM600 ELM601 ELM611	
	ORM701			TLP2303			LTV-M701		
	OR6N135	6N135	6N135M	TLP759		6N135	6N135	6N137	6N135
	OR6N136	6N136	6N136M	TLP759		6N136	6N136	6N136	6N136
	OR6N137	6N137	6N137	TLP2955 TLP2958 TLP555	PS8501	6N137	6N137	6N137	6N137
	OR6N138	6N138	6N138M	TLP553		6N138	6N138	6N138	
	OR6N139	6N139	6N139M	TLP553		6N139	6N139	6N139	
	OR045X	HCPL0452 HCPL0453	HCPL0452 HCPL0453	TLP2409	PS8802-1 PS8821-1	SFH6343		EL0452 EL0453	
	OR050X	HCPL0500 HCPL5001	HCPL0500 HCPL0501		SFH6315 SFH6316	LTV0501	EL0500 EL0501		
High-speed	OR053X	HCPL053L	HCPL0530 HCPL0531	PS8802-2 PS8821-2		EL0530 EL0531			
	OR06XX	HCPL0600 HCPL0601 HCPL0611	HCPL0600 HCPL0601 HCPL0611			VO0600T VO0601T VO0611T	LTV0601	EL0600 EL0601 EL0611	
	OR050L	HCPL050L	FOD050L					EL050L	
	OR060L	HCPL060L	FOD060L			SFH6747T		EL060L	
	OR063L	HCPL063L		TLP2118E	PS9817A-2	VO0630T VO0631T	LTV063L	EL0630 EL0631	
	OR064L	ACPL-064L							
	OR450X	HCPL450X	HCPL4502 HCPL4503		PS8502	SFH6345		EL4502 EL4503 EL4504	
	OR253X	HCPL253L	HCPL2530 HCPL2531			SFH6325 SFH6326		EL2530 EL2531	
	OR26XX	HCPL2601 HCPL2611	HCPL2601M HCPL2611M			VO2601 VO2611		EL2601 EL2611	
	OR263X	HCPL2630 HCPL2631	HCPL2630M HCPL2631M			VO2630 VO2631		EL2630 EL2631	
	OR50L	ACPLW50L			PS8302		LTV50L		
	OR60L	ACPLW60L						LTV60L	
	OR220X							EL2200 EL2201 EL2202	
	ORH61L	ACNTH61L							

Type	Orient	Avago	COSMO	Toshiba	Panasonic	Renesa	Vishay	Liteon	EI	Omron
SSR	ORM406A	ASSR-1218 ASSR-1228 ASSR-4120 ASSR-1510		TLP170A TLP171A TLP172AM	AQY282 AQY212S					G3VM-61VY1/2
	ORM440A	ASSR-4118 ASSR-4110		TLP170G TLP170GM TLP172GAM TLP172GM	AQY217GS AQY210S AQY214S	PS7241E-1A			ELM440 A	G3VM-401G
	ORM460A			TLP170J TLP171J					ELM460 A	G3VM-601G
	OR406A			TLP240A	AQY212EH				EL406A	G3VM-61A1/D1 G3VM-61AY/DY
	OR425A			TLP240D					EL425A	
	OR440A			TLP223GA TLP224G TLP224GA TLP240G	AQY210EH AQY280EH AQY214EH	LH1546AD VOR1142			EL440A	G3VM-351 G3VM-401
	OR443H				AQZ204					
	OR460A			TLP223J TLP240JF	AQY216EH				EL460A	G3VM-601
	OR606A			TLP598AA	AQV251 AQV252A QV252G3A AQV212H		VO14642		EL606A	G3VM-61B1/E1
	OR625A			TLP4597G	AQV255 AQV257 AQV217H	VOR1121			EL625A	
	OR640A	ASSR-4119 ASSR-4111		TLP797GA TLP798GA	AQV254 AQV214 AQV214H	PS7141E-1A VOR1142			EL640A	
	OR660A			TLP797J TLP797JF	AQV216H	PS7160-1A			EL660A	
	OR806A	ASSR-1228 ASSR-1420 ASSR-1411 ASSR-1520			AQW212					3VM-62C1/F1
	OR825A	ASSR-3220		TLP202G	AQW217					
	OR840A	ASSR-4128 ASSR-4120		TLP224G-2 TLP224GA-2	AQW214 AQW210	PS7141E-2A			EL840A	G3VM-WL/WFL
	OR860A			TLP3549	AQW216	PS7160-2A			EL860A	
	OR5211	ASSR-5211				PS7360 PS7160-1A				
	OR0223				AQH0223			LTV-0223	EL0223	
	OR1223		KTLP3502 KTLP3506		AQH1223			LTV-1223	EL1223	
	OR2223				AQH2223	VO2223		LTV-2223	EL2223	
	OR3223		KTLP3616		AQH3223	VO2223A VO2223B		LTV-3223	EL3223	
	OR0213				AQH0213				EL0213	
	OR1213		KTLP3503 KTLP3507		AQH1213				EL1213	
	OR2213				AQH2213			LTV-2213	EL2213	
	OR3213		KTLP3617		AQH3213			LTV-3213	EL3213	

Type	Orient	Avago	Onsemi	Toshiba	Renesa	Vishay	Liteon
IGBT	OR3120	HCPL-3120	FOD3120	TLP250H TLP350	PS9505	VO3120	LTV3120
	OR3150	HCPL-3150	FOD3150	TLP351A	PS9505	VO3150A	LTV3150
	OR155E			TLP155E		VOM1271	LTV155E
	OR314	ACPL-W314	FOD8314	TLP5701			LTV314
	OR340	ACPL-W340		TLP5751			LTV340
	OR341	ACPL-W341	FOD8342	TLP5702		VOL3120	LTV341

Type	Orient	Onsemi	EL			
Schmitt Trigger	ORH11L1	H11L1M	H11L1			



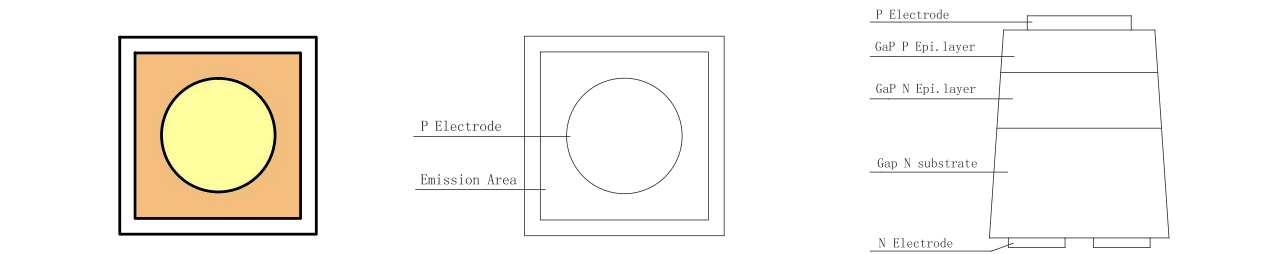


Chip

GaP/GaP LED Chips	11
GaAs/GaAs 940 IrED Chip	13
GaAlAs/GaAs 940 IrED Chip	14
Si Photo diode	15
Si photo transistor	17

GaP/GaP LED Chips

Features	Package	Market
Homo–Epitaxial growth	Dot Matrix	Indicator Light
Good Reliability	Digital tube	Digital tube
Good Weathering Resistance	Lamp	RJ45
	SMD etc	Back Lightr



Size

Part No.	L(um)	W(um)	T(um)	P–pad(um)	N–pad(um)
ORT007RD	165 ± 30	165 ± 30	250 ± 30	95 ± 10	Full Area
ORT008RD	180 ± 30	180 ± 30	250 ± 30	104 ± 10	Full Area
ORT007YG	150 ± 30	150 ± 30	210 ± 30	90 ± 10	Full Area
ORT008YG	180 ± 30	180 ± 30	210 ± 30	100 ± 10	Net(25)
ORT009YG	215 ± 30	215 ± 30	240 ± 30	95 ± 10	Dot(045)
ORT008YGK	165 ± 30	165 ± 30	240 ± 30	104 ± 10	Full Area
ORT007YGL	155 ± 30	155 ± 30	220 ± 30	92 ± 10	Net(25)
ORT108YG	180 ± 30	180 ± 30	210 ± 30	100 ± 10	Full Area

Material /Structure

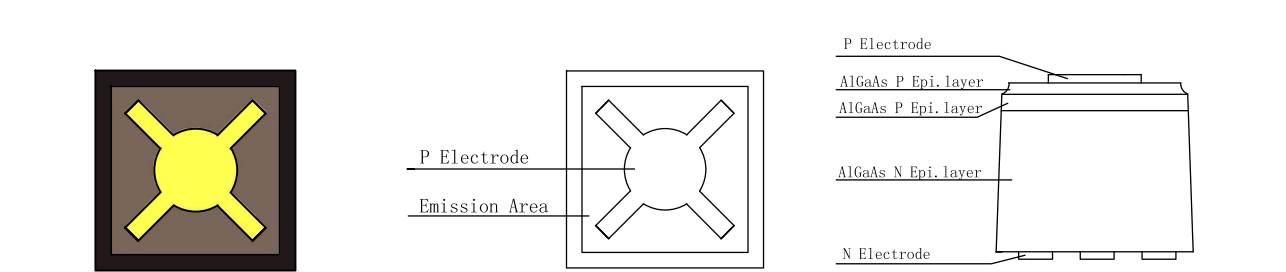
Substrate Material	GaP
Epitaxy Structure	GaP/GaP
P electrode(anode)	Au alloy/Al alloy
N electrode(cathode)	Au alloy

Photoelectric Properties

Part No.	Forward Voltage VF(V)	Luminous Intensity Po(mw)	Dominant Wavelength WLD(nm)@20mA
ORT007RD	< 2.6V@20mA	> 0.3@5mA	620–650
ORT008RD	< 2.4V@20mA	> 0.5@5mA	620–650
ORT008YG	< 2.4V@20mA	> 7@20mA	568–574
ORT009YG	< 2.4V@20mA	> 7@20mA	568–574
ORT007YG	< 2.6V@20mA	> 6@20mA	568–574
ORT008YGK	< 2.6V@20mA	> 6@20mA	568–574
ORT007YGL	< 2.4V@20mA	> 5.5@20mA	568–574
ORT108YG	< 2.6V@20mA	> 6@20mA	568–574

GaP/GaP LED Chips

Features	Package	Market
High luminous Intensity	Dot Matrix	Indicator Light
GaAIAs/GaAs	Digital tube	Digital tube
Single Heterojunction Structure	Lamp	Display
	SMD etc	



Size

Part No.	L(um)	W(um)	T(um)	P–pad(um)	N–pad(um)
ORT010SRK	180 ± 30	180 ± 30	245 ± 30	95 ± 10	Full Area

Material /Structure

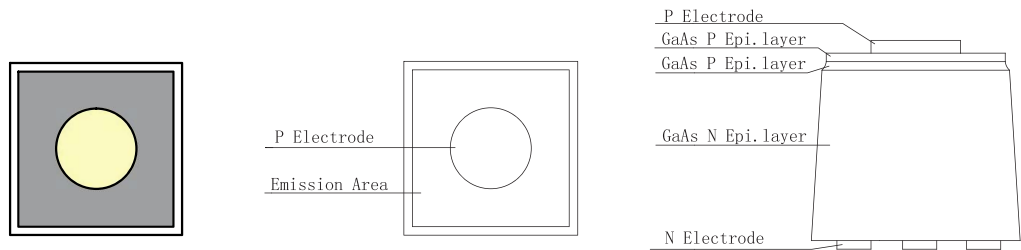
Substrate Material	GaAs
Epitaxy Structure	GaAIAs/GaAs
P electrode(anode)	Al alloy/Al alloy
N electrode(cathode)	Au alloy

Photoelectric Properties

Part No.	Forward Voltage VF(V)	Luminous Intensity Po(mw)	Peak Wavelength WLP(nm)@20mA
ORT010SRK	< 2.20@20mA	> 8@20mA	640–650

GaAs/GaAs 940 IrED Chip

Features	Package	Market
GaAs/GaAs Homo–Epitaxial growth	Lamp	Peripheral Device
Good Reliability	SMD etc	Photo Coupler
Good spectral matched to Si Detector		Photo Interrupter



Size

Part No.	L(um)	W(um)	T(um)	P–pad(um)	N–pad(um)
008IRC	200 ± 30	200 ± 30	230 ± 15	104 ± 10	Dot(055)
ORT010IRC	245 ± 30	245 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT010IRC–L	204 ± 30	204 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT109IRC	220 ± 30	220 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT110IRC	230 ± 30	230 ± 30	215 ± 20	105 ± 10	Dot(045)

Material /Structure

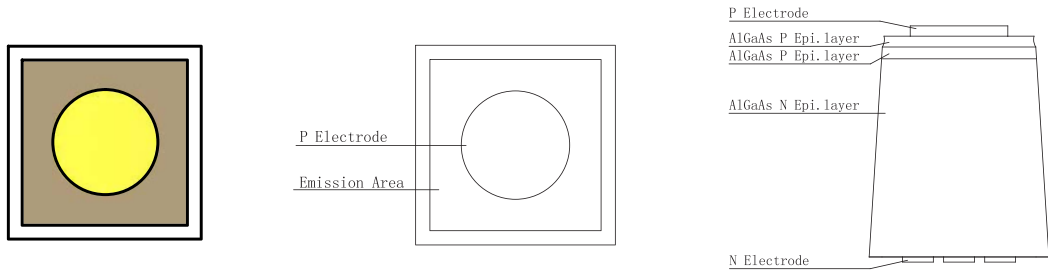
Substrate Material	GaAs
Epitaxy Structure	GaAs
P electrode(anode)	Al Alloy
N electrode(cathode)	Au Alloy

Photoelectric Properties

Part No.	Forward Voltage VF(V)	Luminous Intensity Po(mw)	Peak Wavelength
008IRC	< 1.35@20mA	> 0.5@20mA	930–950
ORT010IRC	< 1.3@20mA	> 0.5@20mA	930–950
ORT010IRC–L	< 1.3@20mA	> 0.5@20mA	930–950
ORT109IRC	< 1.3@20mA	> 0.5@20mA	930–950
ORT110IRC	< 1.3V@20mA	> 0.9@20mA	930–950

GaAlAs/GaAs 940 IrED Chip

Features	Package	Market
GaAlAs/GaAs Wafer	Lamp	Remote Controller
High Power	SMD etc	Peripheral Device
Good spectral matched to Si Detector		Photo Coupler
		Photo Interrupter



Size

Part No.	L(um)	W(um)	T(um)	P–pad(um)	N–pad(um)
ORT007IRA	175 ± 30	175 ± 30	215 ± 20	104 ± 10	Dot(055)
ORT008IRA	200 ± 30	200 ± 30	215 ± 20	104 ± 10	Dot(055)
ORT010IRA	245 ± 30	245 ± 30	215 ± 20	104 ± 10	Dot(055)
ORT012IRA	280 ± 30	280 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT112IRA	300 ± 30	300 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT912IRA	300 ± 30	300 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT114IRA–L	330 ± 30	330 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT114IRA	350 ± 30	350 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT015IRA	380 ± 30	380 ± 30	215 ± 20	104 ± 10	Dot(045)
ORT016IRA	405 ± 30	405 ± 30	215 ± 20	104 ± 10	Dot(045)

Material /Structure

Substrate Material	GaAlAs
Epitaxy Structure	GaAlAs/GaAs
P electrode(anode)	Au Alloy
N electrode(cathode)	Au Alloy

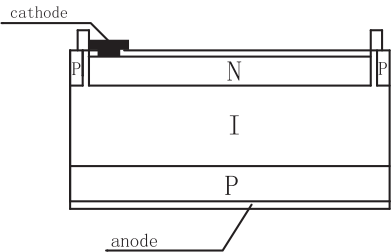
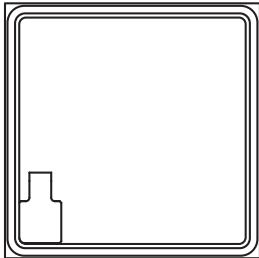
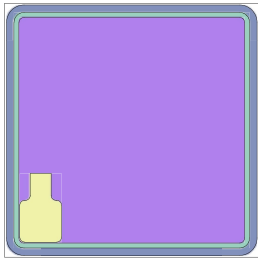
Photoelectric Properties

Part No.	Forward Voltage VF(V)	Luminous Intensity Po(mw)	Peak Wavelength WLP(nm)@20mA
ORT007IRA	< 1.35@20mA	> 1.3@20mA	930–950
ORT008IRA	< 1.3@20mA	> 1.4@20mA	930–950
ORT010IRA	< 1.3@20mA	> 1.6@20mA	930–950
ORT012/112/912IRA	< 1.3@20mA	> 1.7@20mA	930–950
ORT114IRA–L/114IRA	< 1.25@20mA	> 1.75@20mA	930–950
ORT015IRA	< 1.25@20mA	> 1.8@20mA	930–950
ORT016IRA	< 1.25@20mA	> 1.85@20mA	930–950

Chip

Si Photo diode

Features	Package	Market
PIN/NIP silicon structure	Lamp	Infrared receiving
Excellent Uniformity	SMD	Tube
Good Reliability	TO etc	Electronic whiteboard
		Optical communication



Size

Part No.	L(um)	W(um)	T(um)	Active area(um)	N–pad(um)
ORTPD2124	600 ± 30	600 ± 30	280 ± 20	460*460	120 ± 20
ORTPD2128	670 ± 30	670 ± 30	280 ± 20	540*540	120 ± 20
ORTPD2138	940 ± 30	940 ± 30	280 ± 20	820*820	Φ 110
ORTPD2140	1000 ± 30	1000 ± 30	280 ± 20	840*840	150 ± 20
ORTPD2143	1090 ± 30	1090 ± 30	280 ± 20	910*910	200 ± 20
ORTPD2151	1270 ± 30	1270 ± 30	280 ± 20	1090*1090	250 ± 20
ORTPD2151D	2540 ± 30	1270 ± 30	280 ± 20	1090*1090	250 ± 20
ORTPD2155	1380 ± 30	1380 ± 30	280 ± 20	1220*1220	150 ± 20
ORTPD2160	1520 ± 30	1520 ± 30	280 ± 20	1350*1350	250 ± 20
ORTPD2160D	3040 ± 30	1520 ± 30	280 ± 20	1350*1350	250+20
ORTPD2165	1480 ± 30	1225 ± 30	280 ± 20	1380*1125	150 ± 20
ORTPD212460	610 ± 30	1520 ± 30	280 ± 20	450*1360	130 ± 20
ORTPD212650	660 ± 30	1270 ± 30	280 ± 20	500*1110	130 ± 20
ORTPD2015	390 ± 30	390 ± 30	150 ± 20	275*275	80 ± 20
ORTPD2024	600 ± 30	600 ± 30	280 ± 20	460*460	120 ± 20
ORTPD2040	1000 ± 30	1000 ± 30	280 ± 20	910*910	150 ± 20
ORTPD2060	1520 ± 30	1520 ± 30	280 ± 20	1350*1350	250 ± 20
ORTPD2090	2290 ± 30	2290 ± 30	280 ± 20	2030*2030	120 ± 20
ORTPD20120	3050 ± 30	3050 ± 30	280 ± 20	2794*2794	200 ± 20

Material /Structure

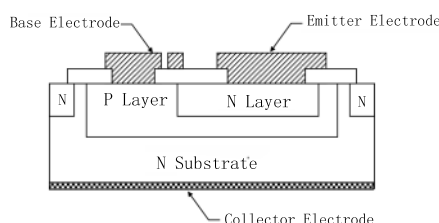
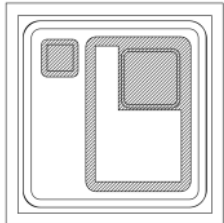
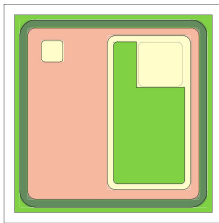
Substrate Material	Si
Epitaxy Structure	N/I/P or P/I/N
Top electrode	Al alloy
Back electrode	Ag alloy

Photoelectric Properties

Part No.	Forward Voltage VF (V) @10mA	Reverse BrokenVoltage (V) @IR=100 μ A, H=0	Light Current IL (mA) VR=5V,Has 1mw/cm2,@ 940nm	Reverse Dark Current (nA) ID@VR =10V, H=0
ORTPD2124	< 1.3	VBR > 30	>10	< 10
ORTPD2128	< 1.3	VBR > 30	>14	< 10
ORTPD2140	< 1.3	VBR > 30	>30	< 10
ORTPD2143	< 1.3	VBR > 30	>36	< 10
ORTPD2151	< 1.3	VBR > 30	>48	< 10
ORTPD2151D	< 1.3	VBR > 30	>48	< 10
ORTPD2155	< 1.3	VBR > 30	>53	< 10
ORTPD2160	< 1.3	VBR > 30	>78	< 10
ORTPD2160D	< 1.3	VBR > 30	>78	< 10
ORTPD2165	< 1.3	VBR > 30	>40	< 10
ORTPD212460	< 1.3	VBR > 30	>55	< 10
ORTPD212650	< 1.3	VBR > 30	>40	< 10
ORTPD2015	< 1.3	VBR > 30	>3	< 10
ORTPD2024	< 1.3	VBR > 30	>10	< 10
ORTPD2040	< 1.3	VBR > 30	>30	< 10
ORTPD2060	< 1.3	VBR > 30	>78	< 10
ORTPD2090	< 1.3	VBR > 30	>100	< 10
ORTPD20120	< 1.3	VBR > 30	>150	< 10

Si photo transistor

Features	Package	Market
PIN/NIP silicon structure	Lamp	Infrared receiving
Excellent Uniformity	SMD	Tube
Good Reliability	TO etc	Electronic whiteboard
		Optical communication



Size

Part No.	L(um)	W(um)	T(um)	Base(um)	Emitter(um)
ORTPT3016-H1	415 ± 30	415 ± 30	220 ± 20	70*70	138*138
ORTPT3016-H2	415 ± 30	415 ± 30	220 ± 20	70*70	138*138
ORTPT3116-H1	406 ± 30	406 ± 30	220 ± 20	90*90	Φ 120
ORTPT3018-H2	455 ± 30	455 ± 30	220 ± 20	/	Φ 120
ORTPT3118-H1	458 ± 30	458 ± 30	220 ± 20	80*80	Φ 120
ORTPT3121-H1	508 ± 30	508 ± 30	220 ± 20	60*60	160*160
ORTPT3124-H1	610 ± 30	610 ± 30	220 ± 20	90*90	155*155
ORTPT3125-H1	610 ± 30	610 ± 30	220 ± 20	85*85	Φ 180

Material /Structure

Substrate Material	Si
Epitaxy Structure	N/P/N
P electrode(anode)	Al alloy
N electrode(cathode)	Au alloy/Ag alloy

Photoelectric Properties

Part No.	I _{ceo} (nA)@20V	BV _{ceo} (V)@50uA	BV _{ceo} (V)@500uA	HFE (@VCE=10V&IC=1mA)
ORTPT3016-H1	<50nA	>7	>70	300-3000
ORTPT3016-H2	<50nA	>7	>70	300-3000
ORTPT3116-H1	<50nA	>7	>70	300-3000
ORTPT3018-H2	<50nA	>7	>70	300-3000
ORTPT3118-H1	<50nA	>7	>70	300-3000
ORTPT3121-H1	<50nA	>7	>100	300-3000
ORTPT3124-H1	<50nA	>7	>70	300-3000
ORTPT3125-H1	<50nA	>7	>100	300-3000



Photocoupler

Model total table

Photocoupler type Package type and size	Photo Transistor	Darlington	Triac Driver	High-speed	Solid State Relay	IGBT	Schmitt Trigger
DIP4 (6.4x4.6x3.48)	ORPC817 ORPC851 OFOD617 OFOD817 OFOD814 OTLP621 OTLP781 OTLP785 OTLP521-1 OTLP620 OTLP626	ORPC815 ORPC852 OTLP523 OTLP627M	ORT302X (X=1/2/3) ORT304X (X=1/2/3) ORT305X (X=1/2/3) ORT306X (X=1/2/3) ORT308X (X=1/2/3) OTLP360J OTLP361J OTLP363J		OR440A OR443H OR460A OTLP240A OTLP240D OTLP240G OTLP240JF OTLP223GA OTLP223J OTLP224G OTLP224GA OG3VM-61 OG3VM-351 OG3VM-401 OG3VM-601 OAQY212EH OAQY210EH OAQY214EH OAQY216EH OAQY282EH OAQY280EH OAQY284EH		
DIP6 (7.14x6.5x3.5)	OR-4N25 OR-4N26 OR-4N27 OR-4N28 OR-4N35 OR-4N36 OR-4N37 OR-4N38 OR-H11AA1 OR-H11AA2 OR-H11AA3 OR-H11AA4	OR-4N29 OR-4N30 OR-4N31 OR-4N32 OR-4N33 OTLP571	ORMOC301X(X=0/1/2) ORMOC302X(X=1/2/3) ORMOC305X(X=1/2/3) ORMOC303X(X=1/2/3) ORMOC304X(X=1/2/3) ORMOC306X(X=1/2/3) ORMOC308X(X=1/2/3) OTLP560G OTLP3021 OTLP3022 OTLP3023 OTLP3052A OTLP560J OTLP3073 OTLP561G OTLP3041 OTLP3042 OTLP3043 OTLP561J OTLP3061(S) OTLP3062(S) OTLP3062A OTLP3063(S) OTLP3064(S) OTLP668J(S) OTLP669L OTLP3083 OTLP3782(S) OTLP3783(S)		OR606A OR625A OR640A OR660A OASSR-4119 OASSR-4111 OAQV251 OTLP3021 OAQV252 OAQV253 OAQV254 OAQV255 OAQV257 OAQV258 OAQV252G3A OAQV210 OAQV212 OAQV214 OAQV216 OAQV217 OTLP598AA OTLP4597G OTLP797GA OTLP798GA OTLP797J OG3VM-61 OASSR-5211		H11L1

Model total table

Photocoupler type Package type and size	Photo Transistor	Darlington	Triac Driver	High-speed	Solid State Relay	IGBT	Schmitt Trigger
DIP6/7/8 (9.68x6.5x3.5)	ORPC824 ORPC827 OMCT6 OMCT61 OMCT62 OMCT9001 OTLP521-2 OTLP621-2 OTLP620-2 OTLP626-2	ORPC825 OTLP523-2	OR0223 OR1223 OR2223 OR3223 OR0213 OR1213 OR2213 OR3213 OAQH0223 OAQH1223 OAQH2223 OAQH3223 OAQH0213 OAQH1213 OAQH2213 OAQH3213	OR6N135 OR6N136 OR6N137 OR6N138 OR6N139 OR4502 OR4503 OR4504 OR2530 OR2531 OR2601 OR2611 OR2630 OR2631 OTLP759 OHCPL4502 OHCPL4503 OHCPL4504 OHCPL2530 OHCPL2531 OTLP2955 OTLP2958 OTLP555 OHCPL2601 OHCPL2611 OHCPL2630 OHCPL2631 OTLP553	OR806A OR825A OR840A OR860A OR5211 OASSR-1228 OASSR-1420 OASSR-1520 OASSR-3220 OASSR-4128 OASSR-4120 OTLP224G-2 OTLP224GA-2 OTLP3549 OAQW212 OAQW217 OAQW210 OAQW214 OAQW216 OG3VM-62C1 OG3VM-62F1 OG3VM-WL OG3VM-WFL	OR3120 OR3150 OHCPL3120 OHCPL3150 OFOD3120 OFOD3150 OTLP250H OTLP350 OTLP351A	
DIP16 (19.84x6.5x3.5)	ORPC847 ORPC844 OTLP521-4 OTLP621-4 OTLP620-4 OTLP626-4	ORPC845 OTLP523-4					
SSOP4 (4.4x 2.6x2.0)	OR3H7 OR3H4 OFODM217 OFODM8801 OFODM214 OTLP290 OTLP291	OR-3H5					
SSOP16 (10.3x4.4x2.0)	OR3H7-4 OR3H4-4 OR247 OR244 OTLP291-4 OTLP292-4	OR3H5-4 OR245					

Model total table

Photocoupler type Package type and size	Photo Transistor	Darlington	Triac Driver	High-speed	Solid State Relay	IGBT	Schmitt Trigger
SOP4/5/6 (4.45x3.85x2.0)	OR357 OR354 OFODM121 OFODM124 OFODM2701 OFODM2705 OTLP185 OTLP181 OTLP126 OTLP182 OTLP180	OR352 OR355 OTLP187 OTLP127	ORM302X (X=2/3/4) ORM304X (X=2/3/4) ORM305X (X=2/3/4) ORM306X (X=2/3/4) ORM308X (X=2/3/4) OTLP160G OTLP160J OTLP165J OTLP260J OTLP265J OTLP267J OTLP161G OTLP161J OTLP163J OTLP166J OTLP168J OTLP261J OTLP266J OTLP268J	OR-M501 OR-M601 OR-M701 OFODM452 OFODM453 OACPLM50L OACPLM61M OTLP2303	ORM440A ORM460A OASSR1218 OASSR1510 OASSR-4118 OASSR-4110 OTLP170A OTLP171A OTLP172AM OTLP170G OTLP170GM OTLP172GM OTLP172GAM OTLP170J OTLP171J OAQY282S OAQY280S OAQY284S OAQY212S OAQY217GS OAQY210S OAQY214S OG3VM-61VY1 OG3VM-61VY2 OG3VM-401G	OR-155E	
LSOP4 (7.5x2.54x2.0)	OR-10XX (XX=01.....20) OFODM1007 OFODM1008 OFODM1009 OTLP385 OTLP10383						
LSO6 (6.81 × 4.58 × 3.18)				OR50L OR60L OACPLW50L OACPLW60L		OR314 OR340 OR341 OACPLW314 OACPLW340 OACPLW341 OFOD8314 OFOD8342 OTLP5701 OTLP5751 OTLP5702	

Model total table

Photocoupler type Package type and size	Photo Transistor	Darlington	Triac Driver	High-speed	Solid State Relay	IGBT	Schmitt Trigger
SO8 (4.88 × 3.92 × 3.18)	ORD205 ORD206 ORD207 ORD211 ORD213 ORD217 OMOCD208M OMOCD208M OMOCD207M OMOCD211M OMOCD213M OMOCD217M			OR0452 OR0453 OR0500 OR0501 OR0600 OR0601 OR0611 OR0530 OR0531 OR063L OR050L OR060L OHCPL0452 OHCPL0453 OTLP2409 OHCPL0500 OHCPL0501 OHCPL0530 OHCPL0531 OHCPL053L OHCPL050L OFOD050L OHCPL0600 OHCPL0601 OHCPL0611 OHCPL063L OHCPL060L OFOD060L			
LSO8 (13.6 × 6.248 × 3.607)				ORH61L OACNTH61L			



Photocoupler

Photocoupler package



picture	package	Size L*W*H (mm)
DIP4  DIP4-M  SMD4 	DIP4	6.4x4.6x3.48
DIP6  DIP6-M  SMD6 	DIP6	7.14x6.5x3.5
DIP6 	DIP6	9.68x6.5x3.5
DIP7 	DIP7	9.68x6.5x3.5
DIP8  DIP8-M  SMD8 	DIP8	9.68x6.5x3.5
DIP16  DIP16-M  SMD16 	DIP16	19.84x6.5x3.5
SSOP4 	SSOP4	4.4x2.6x2
SSOP16 	SSOP16	10.3x4.4x2.0
SOP4  SOP5  SOP6 	SOP4/5/6	4.45x3.95x2.05
LSOP4 	LSOP4	7.5x3.6x2
LSO6 	LSO6	6.81x4.58x3.18
SO8 	SO8	4.88x3.92x3.18
LSO8 	LSO8	13.6x6.248x3.607

Photocoupler

Transistor	25
Darlington Transistor	36
High Speed	43
Schmitt Trigger	54
Triac	55
Solid State Relay	62
IGBT	69
Intelligent Power Module	73
Photovoltaic	77

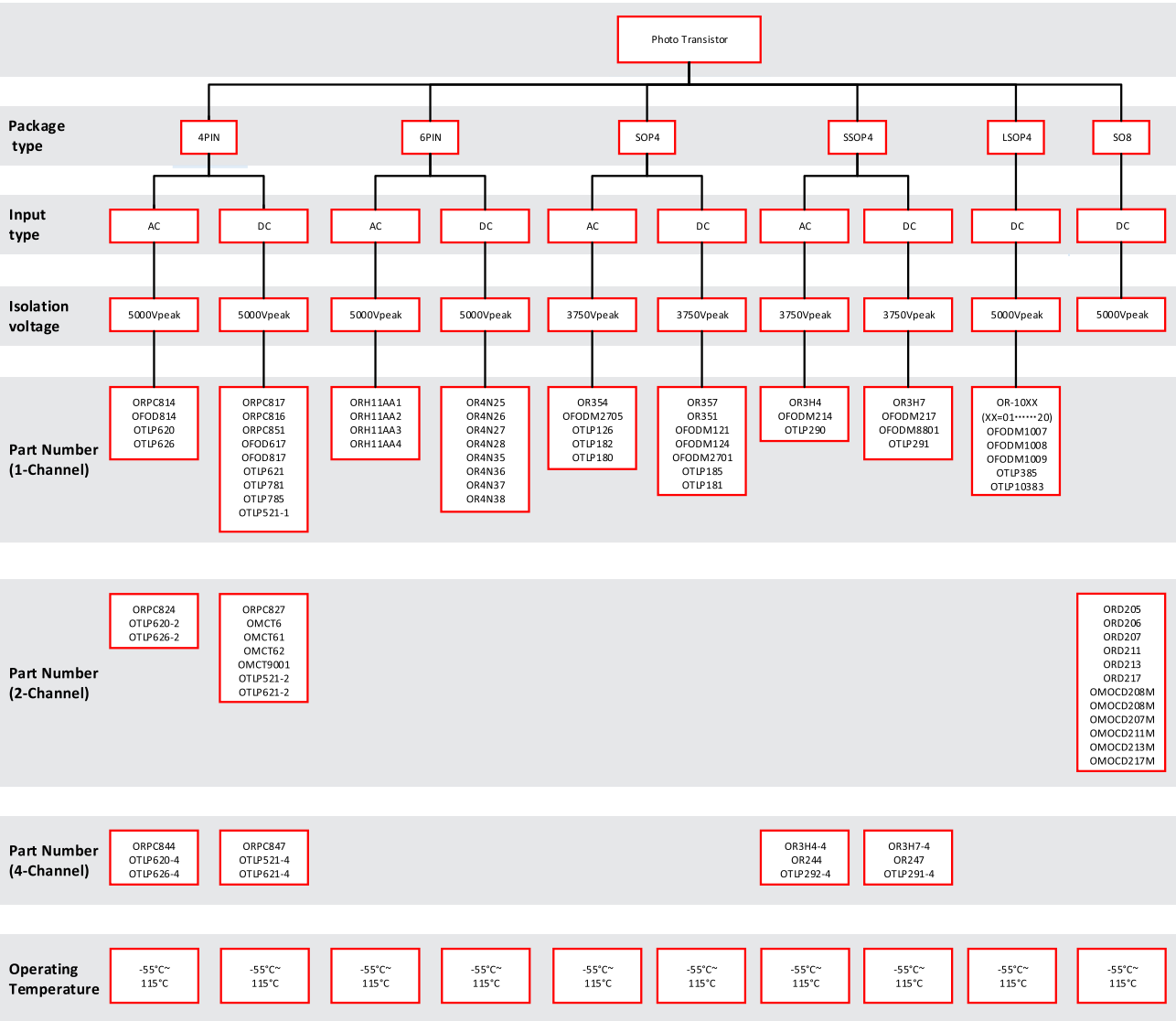
Transistor

Photo Transistor series of devices each consist of an infrared emitting diodes, optically coupled to a phototransistor detector. They are packaged in DIP4 / DIP6 / DIP8 / DIP16 / SSOP4 / SSOP16 / SOP4 / LSOP4 Plastic body, DIP4 / DIP6 / DIP8 / DIP16 is packaged with wide-lead spacing and SMD options. Is the most common and preferred optocoupler that provides isolated feedback in a regulatory loop, All Photo Transistor series products have passed VDE in Germany and UL in the United States, Certification operating temperature up to + 115° C. The product provides high current transfer ratio while isolating the circuit, the current transfer ratio (CTR) of photo translator series is divided into different gears for customers to choose according to different CTR requirements. increased the AC input options, and launched dual channel and four channel products to meet the selection of multi-channel isolation feedback requirements. We also have the choice of products with base pin. The detailed product parameters can be read in the following table.

Application

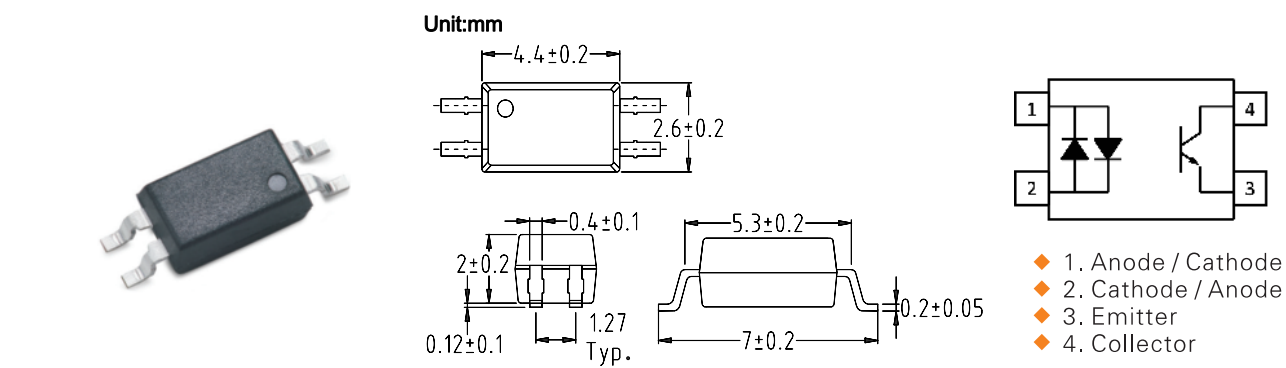
- ◆ Ground loop elimination
- ◆ Interface between logic circuits
- ◆ Level shifting
- ◆ Regulation feedback circuits in SMPS

Transistor



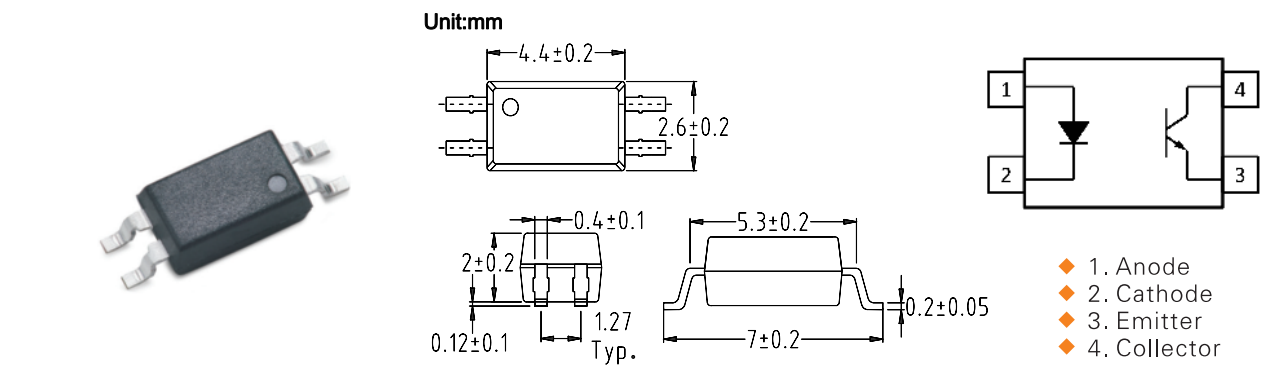
Photocoupler

Photo Coupler | Transistor | SSOP4-AC



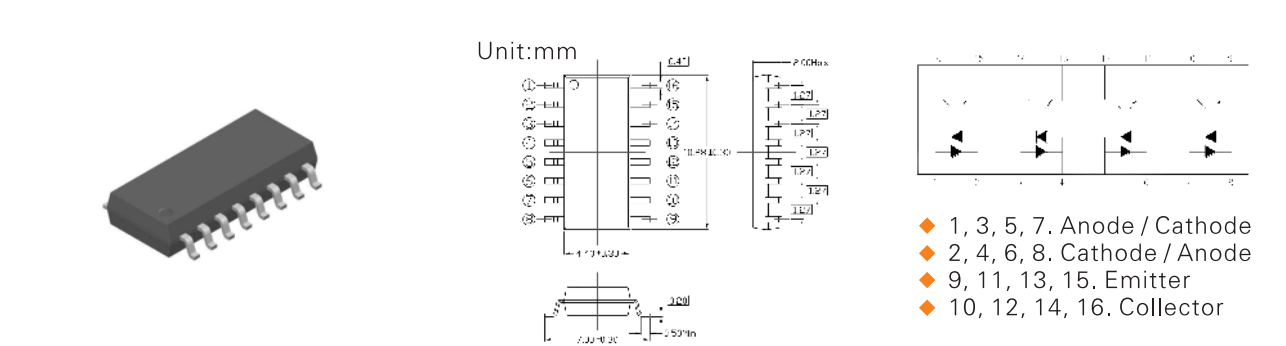
Product	Size (L*W*H mm)	VFT yp(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso(Vrms)	VCE(SAT) max(V)	CTR(%)
OR-3H4	4.4 × 2.6 × 2	1.2	6/8	80	3750	0.2	20-300
OFODM214	4.4 × 2.6 × 2	1.2	3/3	80	3750	0.4	20-400
OTLP290	4.4 × 2.6 × 2	1.25	2/3	80	3750	0.3	50-600

Photo Coupler | Transistor | SSOP4-DC



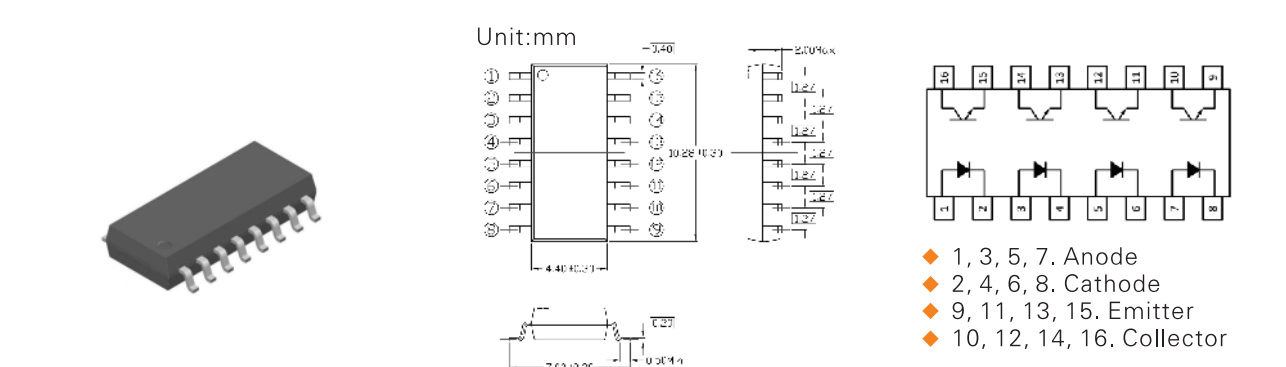
Product	Size (L*W*H mm)	VFT yp(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso(Vrms)	VCE(SAT) max(V)	CTR(%)
OR-3H7	4.4 × 2.6 × 2	1.2	5/3	80	3750	0.2	50-600
OFODM217	4.4 × 2.6 × 2	1.2	3/3	80	3750	0.4	80-600
OFODM8801	4.4 × 2.6 × 2	1.35	5/5.5	75	3750	0.4	80-400 (IF=1mA)
OTLP291	4.4 × 2.6 × 2	1.25	2/3	80	3750	0.3	50-600

Photo Coupler | Transistor | SSOP16-AC



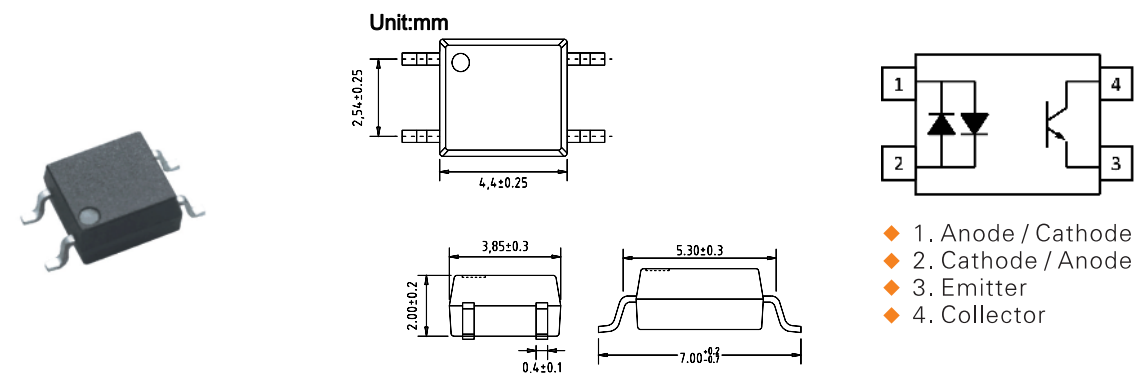
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso(Vrms)	VCE(SAT) max(V)	CTR(%)
OR-244(OR-3H4-4)	10.3 × 4.4 × 2	1.2	5/3	80	3750	0.2	20-300
OTLP292-4	10.28 × 4.4 × 2	1.25	2/3	80	3750	0.3	50-600

Photo Coupler | Transistor | SSOP16-DC



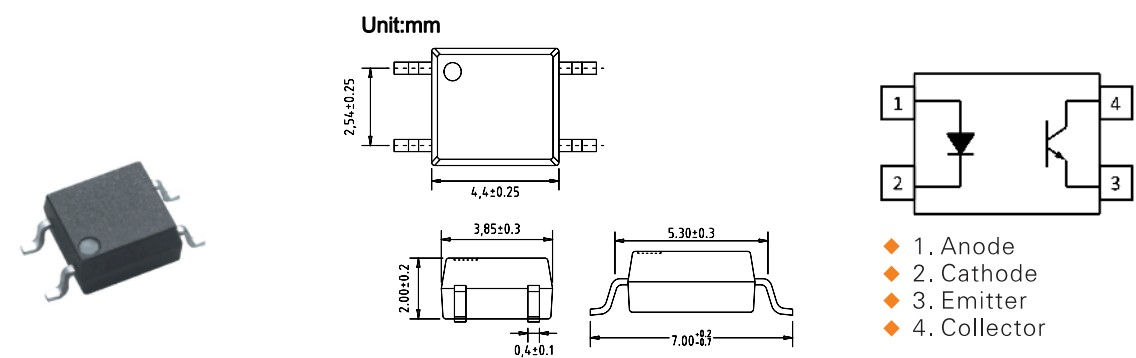
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso(Vrms)	VCE(SAT) max(V)	CTR(%)
OR-247(OR-3H7-4)	10.3 × 4.4 × 2	1.2	5/3	80	3750	0.2	50-600
OTLP291-4	10.28 × 4.4 × 2	1.2	2/3	80	3750	0.4	50-400

Photo Coupler | Transistor | SOP4-AC



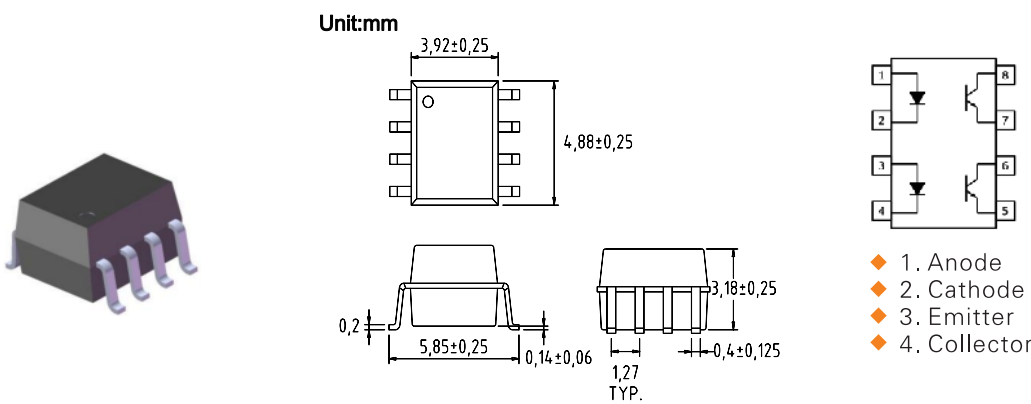
Product	Size (L*W*H mm)	VFT yp(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso(Vrms)	VCE(SAT) max(V)	CTR(%)
OR-354	4.4 × 3.85 × 2	1.2	6/8	80	3750	0.4	20-300
OFODM2705	4.4 × 3.85 × 2	1.2	3/3	40	3750	0.3	50-300
OTLP126	4.4 × 3.85 × 2	1.2	8/8	80	3750	0.4	100-1200
OTLP182	4.4 × 3.85 × 2	1.2	2/3	80	3750	0.3	50-600
OTLP180	4.4 × 3.85 × 2	1.2	2/3	80	3750	0.4	50-600

Photo Coupler | Transistor | SOP4-DC



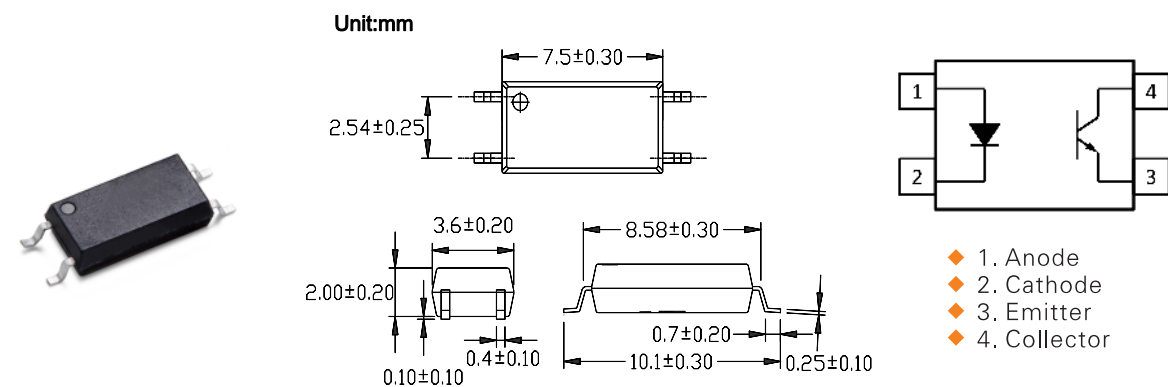
Product	Size (L*W*H mm)	VFT yp(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso(Vrms)	VCE(SAT) max(V)	CTR(%)
OR-357	4.4 × 3.85 × 2	1.2	3/4	80	3750	0.4	50-600
OR351	4.4 × 3.85 × 2	1.2	4/3	350	3750	0.4	50-600
OFODM121	4.4 × 3.85 × 2	1.2	3/3	80	3750	0.4	50-600
OFODM124	4.4 × 3.85 × 2	1.2	3/3	80	3750	0.4	100-1200
OFODM2701	4.4 × 3.85 × 2	1.2	3/3	80	3750	0.4	50-300
OTLP185	4.4 × 3.85 × 2	1.2	2/3	80	3750	0.3	50-600
OTLP181	4.4 × 3.85 × 2	1.2	2/3	80	3750	0.4	50-600

Photo Coupler | Transistor | SO8-DC



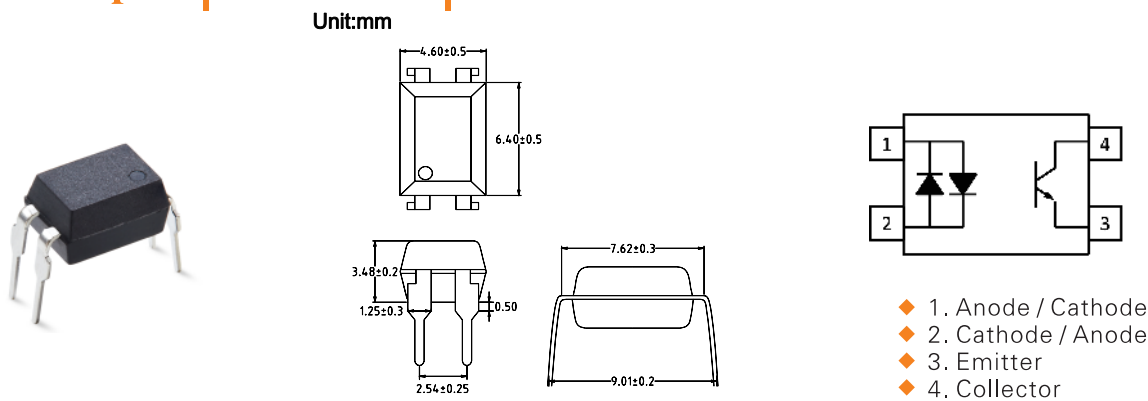
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR-D205	4.88x3.92x3.18	1.2	1.6 / 2.2	80	3750	0.4	40-80
OR-D206	4.88x3.92x3.18	1.2	1.6 / 2.2	80	3750	0.4	63-125
OR-D207	4.88x3.92x3.18	1.2	1.6 / 2.2	80	3750	0.4	100-200
OR-D211	4.88x3.92x3.18	1.2	1.6 / 2.2	80	3750	0.4	20min
OR-D213	4.88x3.92x3.18	1.2	1.6 / 2.2	80	3750	0.4	100min
OR-D217	4.88x3.92x3.18	1.2	1.6 / 2.2	80	3750	0.4	100min
OMOCD207M	4.88x3.92x3.18	1.2	3.2/4.7	70	4000	0.4	100-200
OMOCD208M	4.88x3.92x3.18	1.2	3.2/4.7	70	4000	0.4	40-125
OMOCD211M	4.88x3.92x3.18	1.2	3.2/4.7	30	4000	0.4	20min
OMOCD213M	4.88x3.92x3.18	1.2	3.2/4.7	70	4000	0.4	100min
OMOCD217M	4.88x3.92x3.18	1.2	3.2/4.7	30	4000	0.4	100min

Photo Coupler | Transistor | LSOP4-DC



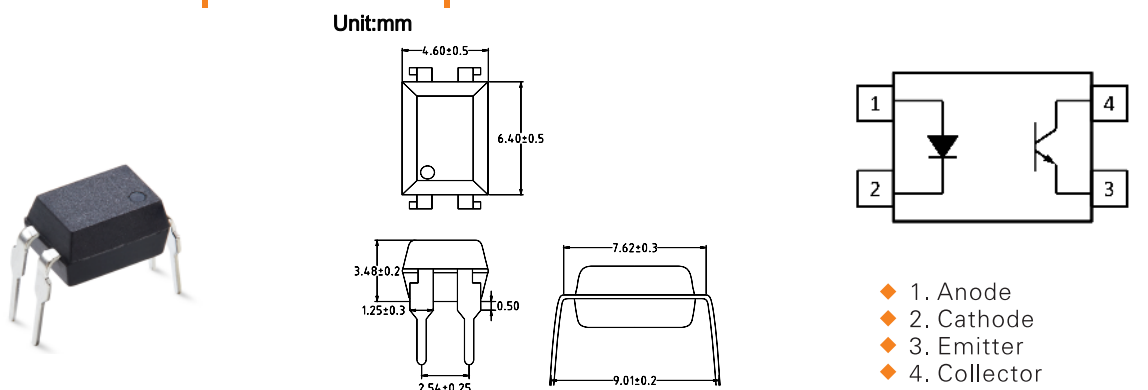
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR-1000	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	50-600
OR-1001	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	100-150
OR-1002	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	60-125
OR-1003	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	100-200
OR-1004	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	100-200
OR-1005	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	50-150
OR-1006	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	100-300
OR-1007	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	80-160
OR-1008	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	130-260
OR-1009	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	200-400
OR-1010	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	150-300
OR-1014	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	160-320
OR-1015	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	63-125
OR-1018	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	100-200
OR-1019	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	250-500
OR-1020	7.5 × 3.6 × 2	1.25	2 / 3	70	5000	0.3	300-450
OFODM1007	7.5 × 3.6 × 2	1.25	5.7/8.5	70	5000	0.3	80-160
OFODM1008	7.5 × 3.6 × 2	1.25	5.7/8.5	70	5000	0.3	130-260
OFODM1009	7.5 × 3.6 × 2	1.25	5.7/8.5	70	5000	0.3	200-400
OTLP385	7.5 × 3.6 × 2	1.25	2 / 3	80	5000	0.3	50-600
OTLP383	7.5 × 3.6 × 2	1.25	2 / 3	80	5000	0.3	50-600

Photo Coupler | Transistor | DIP4-AC



Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC-814	6.4 × 4.6 × 3.48	1.2	7/11	80	5000	0.2	20-300
OFOD814	6.4 × 4.6 × 3.48	1.2	4/3	70	5000	0.2	20-300
OTLP620	6.4 × 4.6 × 3.48	1.2	2/3	55	5000	0.4	50-600
OTLP626	6.4 × 4.6 × 3.48	1.2	8/8	55	5000	0.4	100-1200

Photo Coupler | Transistor | DIP4-DC



Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC-816	6.4 × 4.6 × 3.48	1.2	4/3	80	5000	0.2	50-600
ORPC-817	6.4 × 4.6 × 3.48	1.2	4/3	35	5000	0.2	50-600
ORPC-851	6.4 × 4.6 × 3.48	1.2	4/3	350	5000	0.2	50-600
OFOD617	6.4 × 4.6 × 3.48	1.2	4/3	70	5000	0.4	40-320
OFOD817	6.4 × 4.6 × 3.48	1.2	4/3	70	5000	0.2	50-600
OTLP621	6.4 × 4.6 × 3.48	1.2	2/3	55	5000	0.4	50-600
OTLP781	6.4 × 4.6 × 3.48	1.2	2/3	80	5000	0.4	50-600
OTLP785	6.4 × 4.6 × 3.48	1.2	2/3	80	5000	0.4	50-600
OTLP521-1	6.4 × 4.6 × 3.48	1.2	2/3	55	5000	0.4	50-600

Photo Coupler | Transistor | DIP6-AC

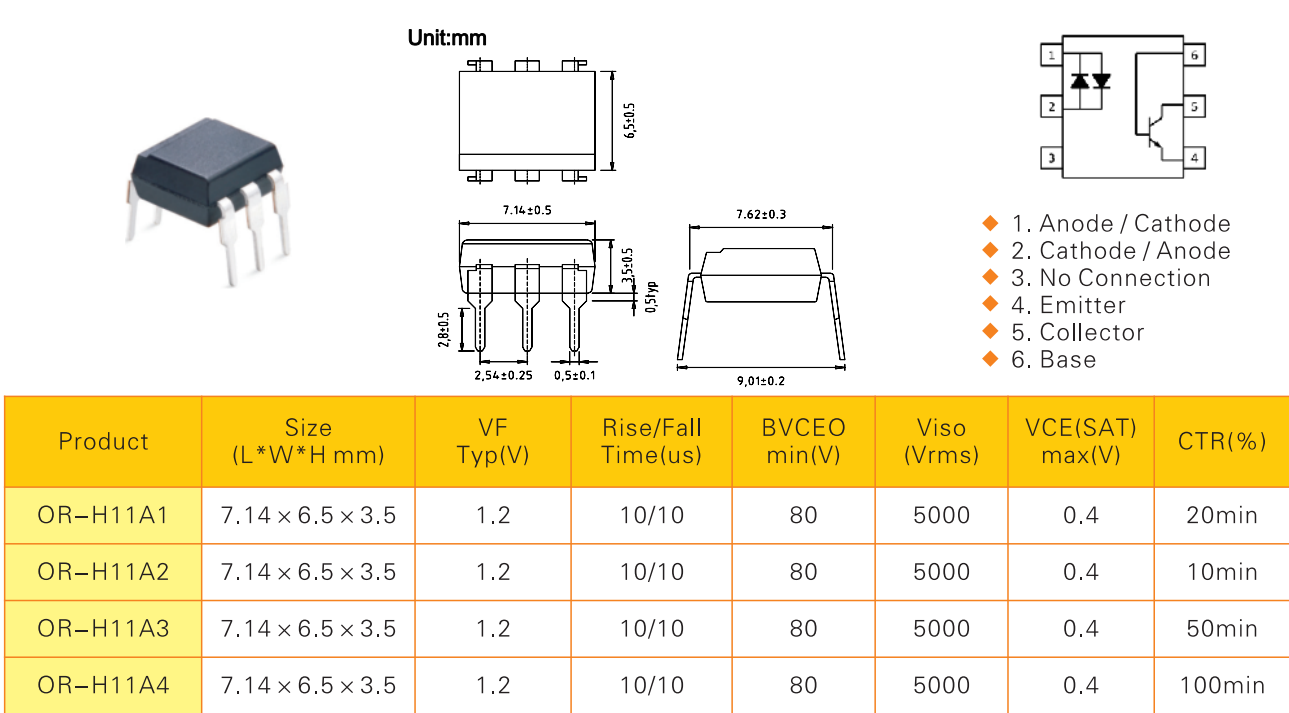


Photo Coupler | Transistor | DIP8-AC

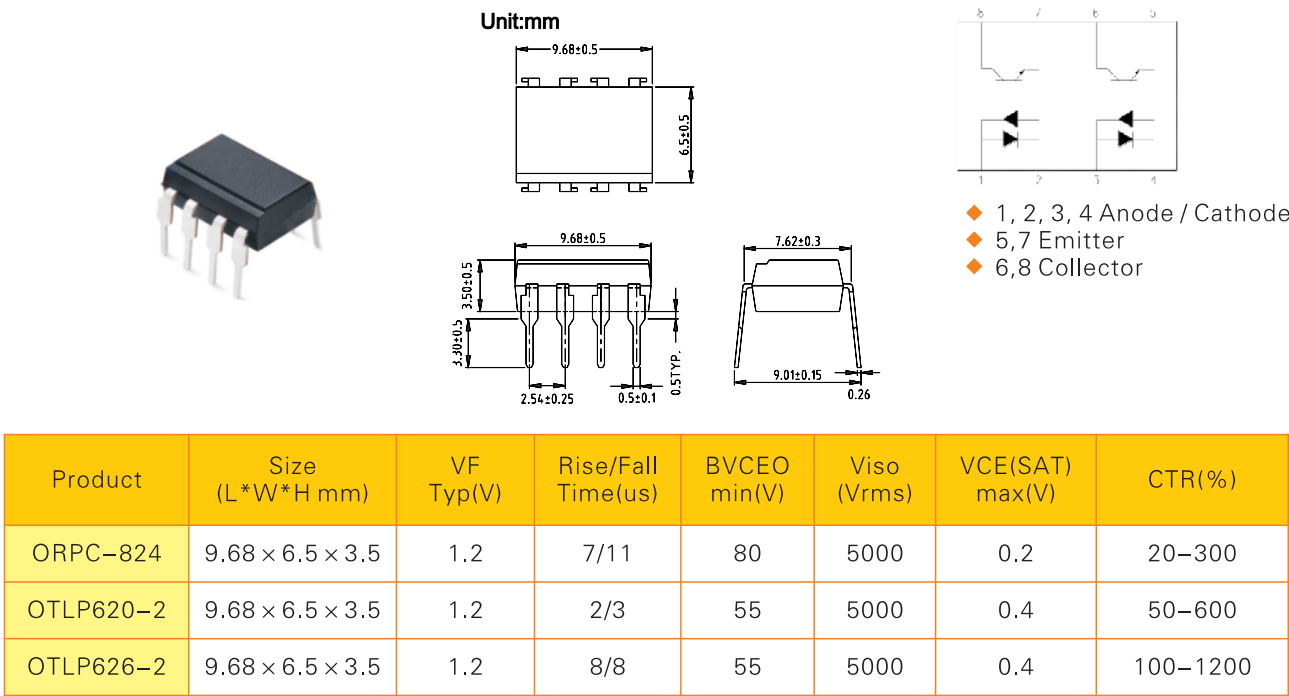


Photo Coupler | Transistor | DIP6-DC

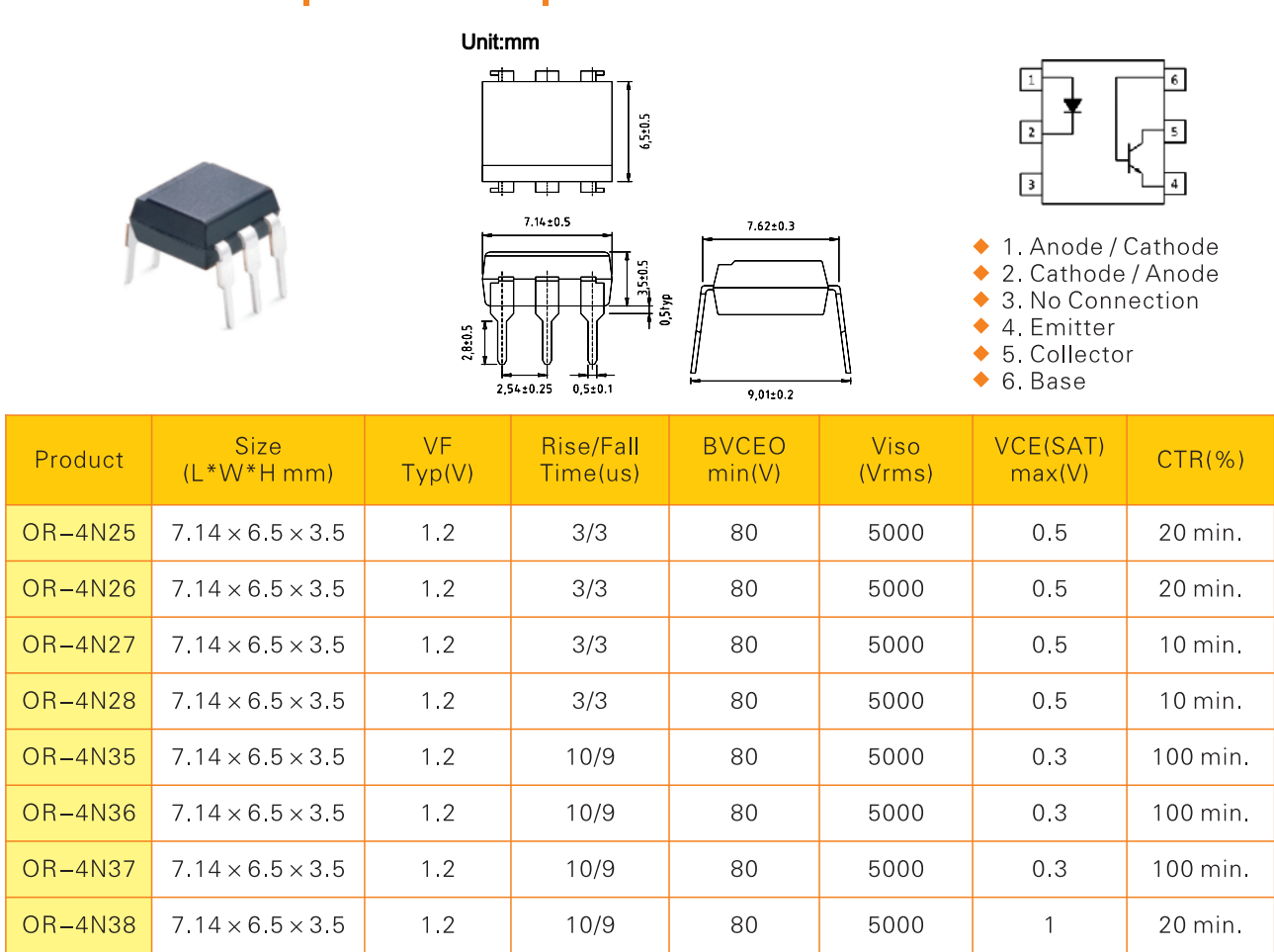


Photo Coupler | Transistor | DIP8-DC

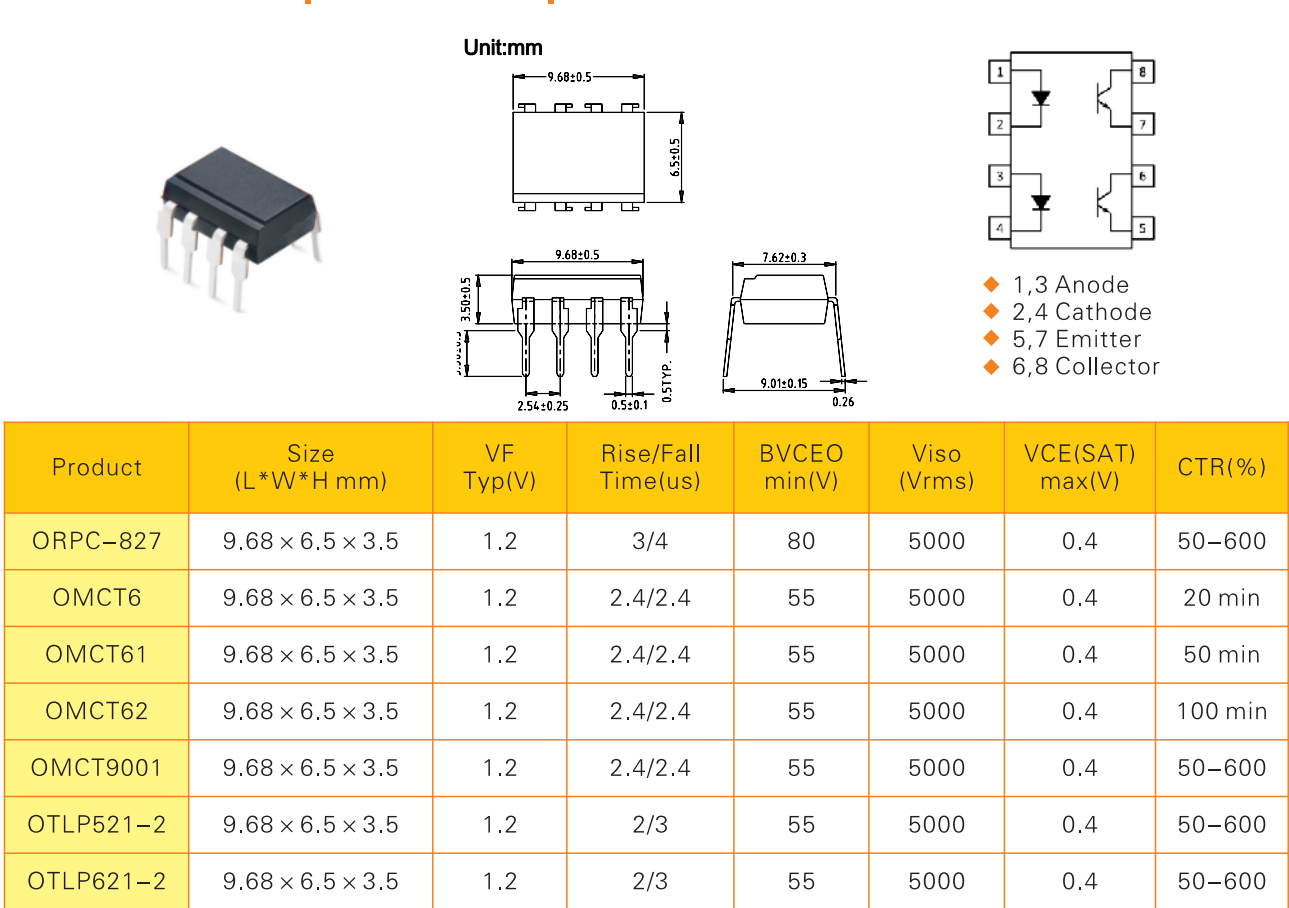
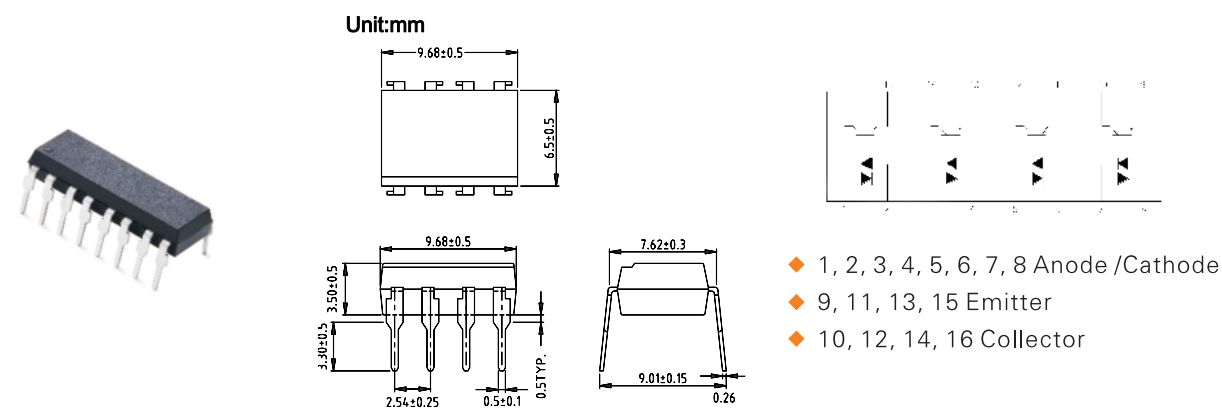


Photo Coupler | Transistor | DIP16-AC



Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC-844	19.84 × 6.5 × 3.5	1.2	7/11	80	5000	0.2	20-300
OTLP620-4	19.84 × 6.5 × 3.5	1.2	2/3	55	5000	0.4	50-600
OTLP626-4	19.84 × 6.5 × 3.5	1.2	8/8	55	5000	0.4	100-1200

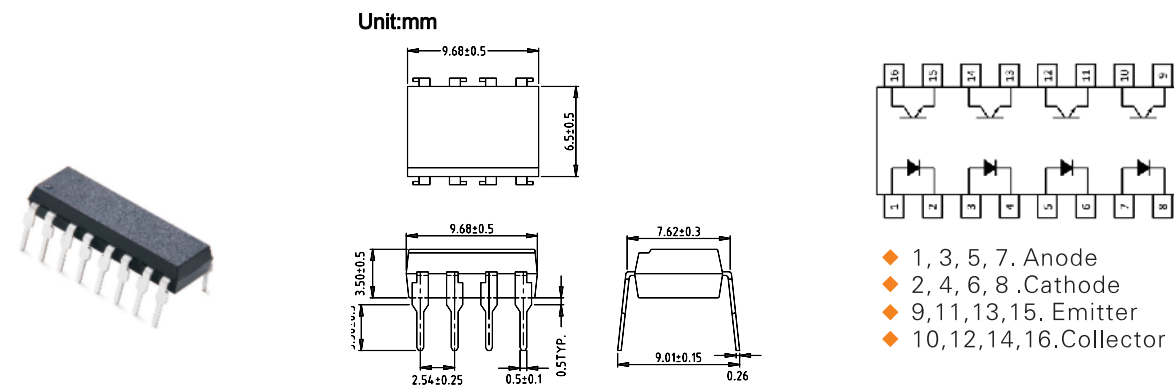
Darlington Transistor

Darlington Transistor series of devices each consist of an GaAs infrared emitting diode emitter, which is optically coupled to a silicon photodarlington detector, is pcaked in DIP4 / DIP6 / DIP8 / DIP16 / SSOP4 / SSOP16 / SOP4 Plastic body, DIP4 / DIP6 / DIP8 / DIP16 is packaged with wide-lead spacing and SMD options. It can provide very high current transfer ratio (CTR) under the condition of low input forward current, The current transfer ratio of CTR can reach up to 7500% at the input of 1mA forward current. All Photo Transistor series products have passed VDE in Germany and UL in the United States, and operating temperature up to + 110 ° C. According to the packaging type, the isolation voltage between the input and output of optocoupler can reach 3750vrms or 5000vrm. The product provides a extremely high current transfer ratio while isolating the circui. The detailed product parameters can be read in the following table.

Application

- ◆ Hybrid substrates that require high density mounting
- ◆ Telephone sets
- ◆ Copiers, facsimiles
- ◆ Interfaces with various power supply circuits, power distribution boards

Photo Coupler | Transistor | DIP16-DC




Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC-847	19.84 × 6.5 × 3.5	1.2	3/4	80	5000	0.2	50-600
OTLP521-4	19.84 × 6.5 × 3.5	1.2	2/3	55	5000	0.4	50-600
OTLP621-4	19.84 × 6.5 × 3.5	1.2	2/3	55	5000	0.4	50-600

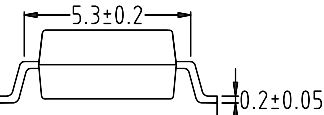
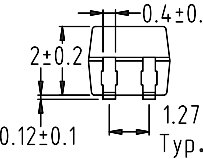
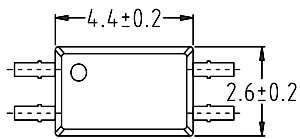
Darlington Transistor

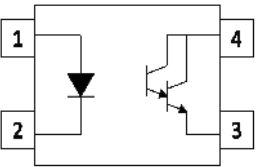
Isolator Type	Darlington Transistor			
Package type	4PIN	6PIN	SOP4	SSOP4
Input type	DC	DC	DC	DC
Isolation voltage	5000Vpeak	5000Vpeak	3750Vpeak	3750Vpeak
Part Number (1-Channel)	ORPC815 ORPC852 OTLP523 OTLP627M	OR4N29 OR4N30 OR4N31 OR4N32 OR4N33 OTLP571	OR352 OR355 OTLP187 OTLP127	OR3H5
Part Number (2-Channel)	ORPC825 OTLP523-2			
Part Number (4-Channel)	ORPC845 OTLP523-4			OR3H5-4 OR245
Operating Temperature	-55°C~ 115°C	-55°C~ 115°C	-55°C~ 115°C	-55°C~ 115°C

Photo Coupler | Darlington Transistor | SSOP4-DC



Unit:mm

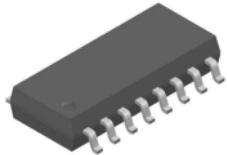




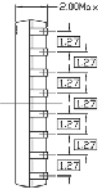
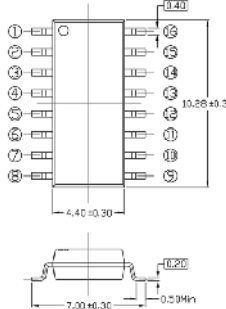
- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

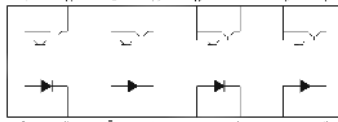
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR3H5	4.4 × 2.6 × 2	1.2	60/53	35	3750	1	600–7500

Photo Coupler | Darlington Transistor | SSOP16-DC



Unit:mm

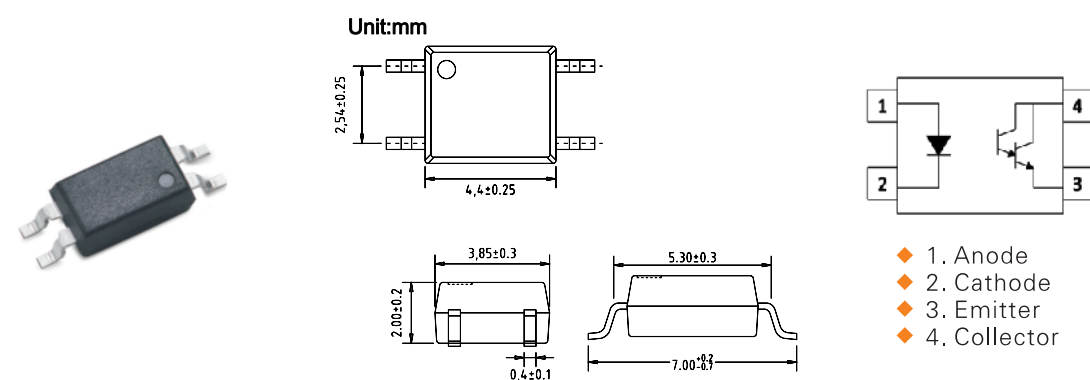




- 1, 3, 5, 7, Anode
- 2, 4, 6, 8 Cathode
- 9, 11, 13, 15 Emitter
- 10, 12, 14, 16 Collector

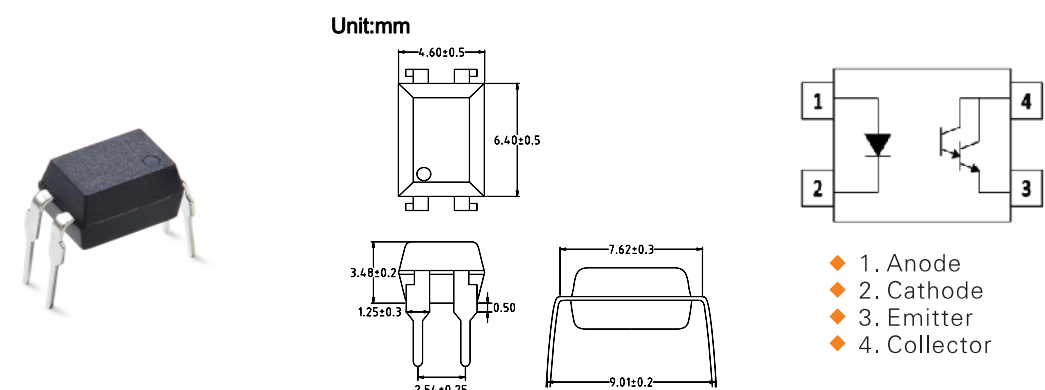
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR3H5-4	10.29 × 4.4 × 2	1.2	60/53	35	3750	1	600–7500

Photo Coupler | Darlington Transistor | SOP4-DC



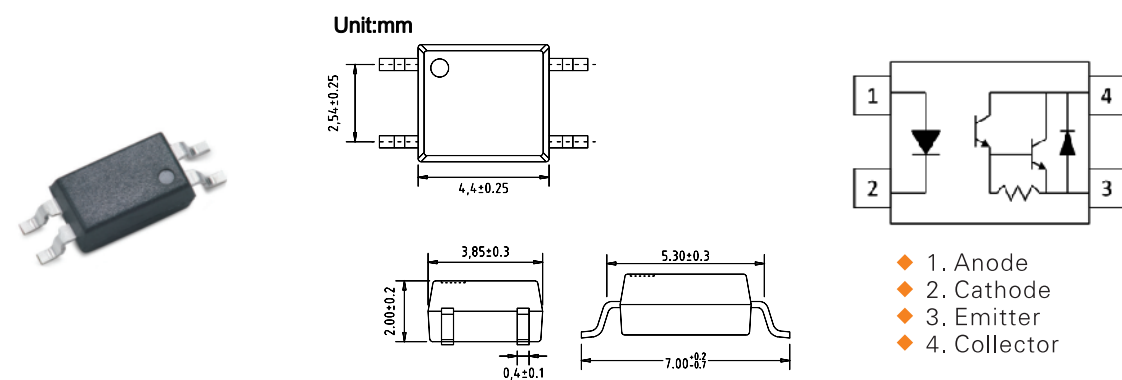
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR-355	4.4 × 3.85 × 2	1.2	60/53	35	3750	1	600–7500

Photo Coupler | Darlington Transistor | DIP4-DC



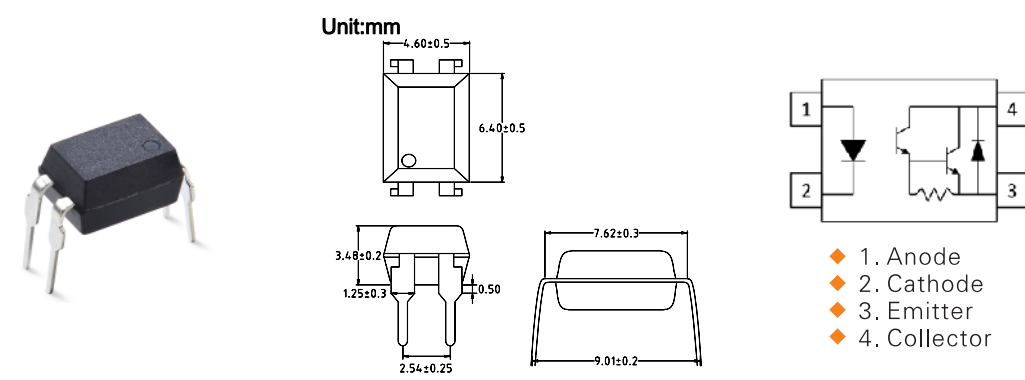
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC815	6.4 × 4.6 × 3.48	1.2	60/53	35	5000	1	600–7500
OTLP523	6.4 × 4.6 × 3.48	1.2	3/80	55	5000	5	500min.

Photo Coupler | Darlington Transistor | SOP4-DC



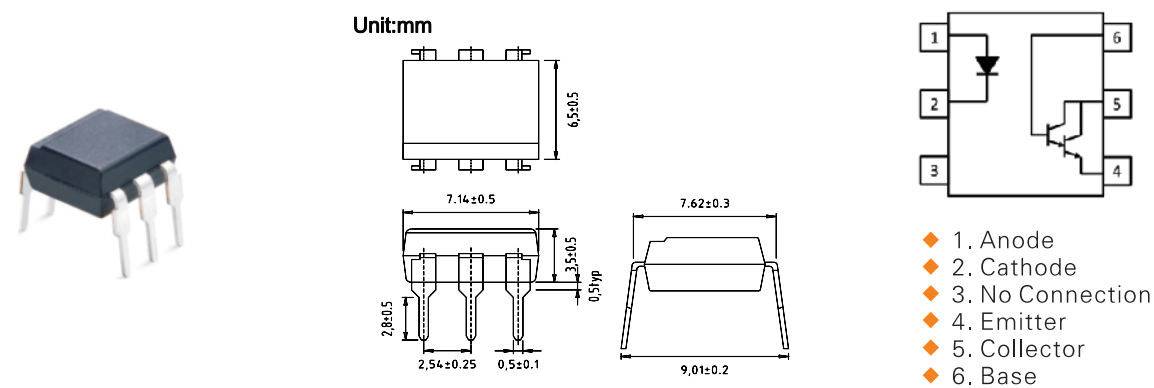
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR-352	4.4 × 3.85 × 2	1.2	100/20	350	3750	1	1000 min.
OTLP187	4.4 × 3.85 × 2	1.2	40/15	300	3750	1.2	1000 min.
OTLP127	4.4 × 3.85 × 2	1.2	40/15	300	3750	1.2	1000 min.

Photo Coupler | Darlington Transistor | DIP4-DC



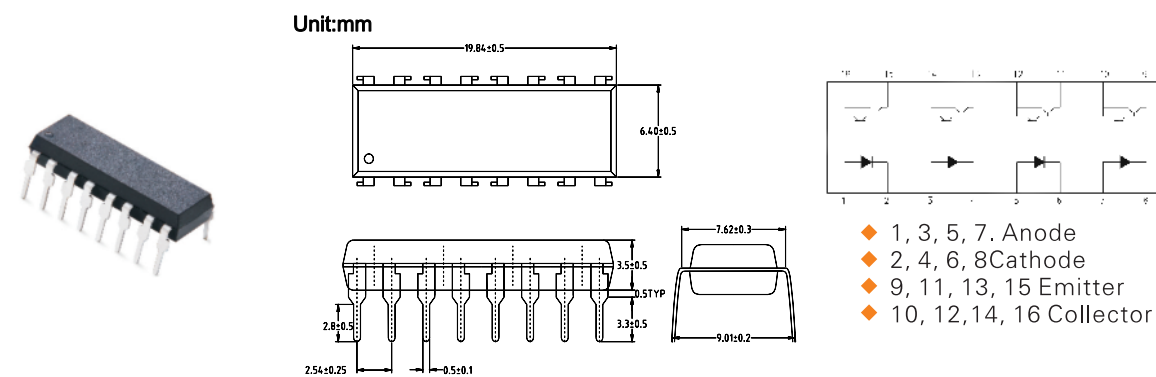
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC852	6.4 × 4.6 × 3.48	1.2	300/100	350	5000	1.2	1000–15000
OTLP627M	6.4 × 4.6 × 3.48	1.2	60/30	300	5000	12	1000min.

Photo Coupler | Darlington Transistor | DIP6-DC



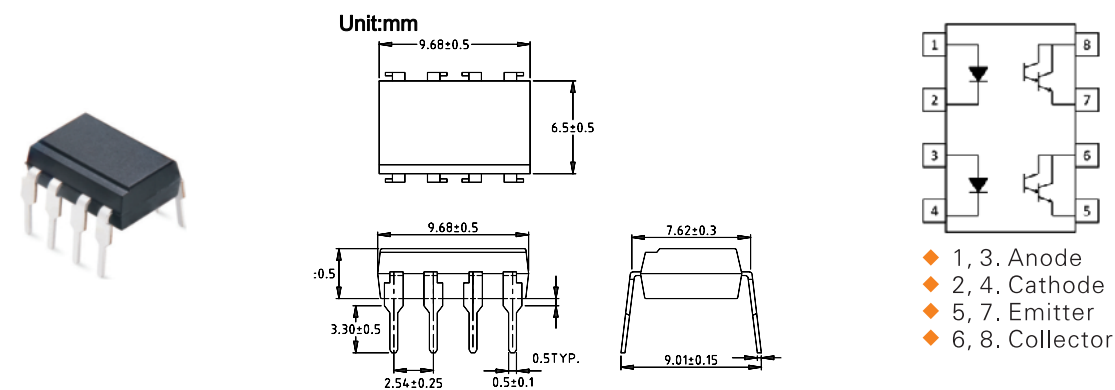
Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
OR-4N29	7.14 × 6.5 × 3.5	1.2	5/40	55	5000	1	100 min.
OR-4N30	7.14 × 6.5 × 3.5	1.2	5/40	55	5000	1	100min.
OR-4N31	7.14 × 6.5 × 3.5	1.2	5/40	55	5000	1.2	50min.
OR-4N32	7.14 × 6.5 × 3.5	1.2	5/100	55	5000	1	500min.
OR-4N33	7.14 × 6.5 × 3.5	1.2	5/100	55	5000	1	500min.
OTLP571	7.14 × 6.5 × 3.5	1.2	40/30	35	5000	1.2	1000min.

Photo Coupler | Darlington Transistor | DIP16-DC



Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC845	19.84 × 6.5 × 3.5	1.2	60/53	40	5000	1	600–7500
OTLP523-4	19.84 × 6.5 × 3.5	1.2	3/80	55	5000	1	500min.

Photo Coupler | Darlington Transistor | DIP8-DC



Product	Size (L*W*H mm)	VF Typ(V)	Rise/Fall Time(us)	BVCEO min(V)	Viso (Vrms)	VCE(SAT) max(V)	CTR(%)
ORPC825	9.68 × 6.5 × 3.5	1.2	60/53	40	5000	1	600–7500
OTLP523-2	9.68 × 6.5 × 3.5	1.2	3/80	55	5000	1	500min.

High Speed

High Speed series of devices each consist of a high efficiency AlGaAs Light Emitting Diode andvery high speed integrated photo–detector logic gate with a strobable output.and is package in DIP8\ SOP5\ LSO6\ SO8 plastic body, DIP8 is packaged with wide–lead spacing and SMD options, This detector features an open collector. The internal shield provides a guaranteed common mode transient. All High Speed Transistor series products through the German VDE and UL certification, product Operating temperature up to + 100 ° C. The isolation pressure between the input and output of the optocoupler can be up to 3750Vrms/5000Vrms/7500Vrms depending on the type of package. Detailed product parameters can be found in the table below.

Application

- ◆ High Voltage Isolation
- ◆ Isolation in line receiver
- ◆ Ground loop elimination
- ◆ Pulse transformer replacement
- ◆ Feedback Element in Switching Mode Power Supplies
- ◆ Power transistor isolation in motor drives
- ◆ High Speed Logic Ground Isolation
- ◆ Interface between Microprocessor system computer and their peripheral TTL / TTL, TTL / CMOS, TTL / LSTTL

High Speed

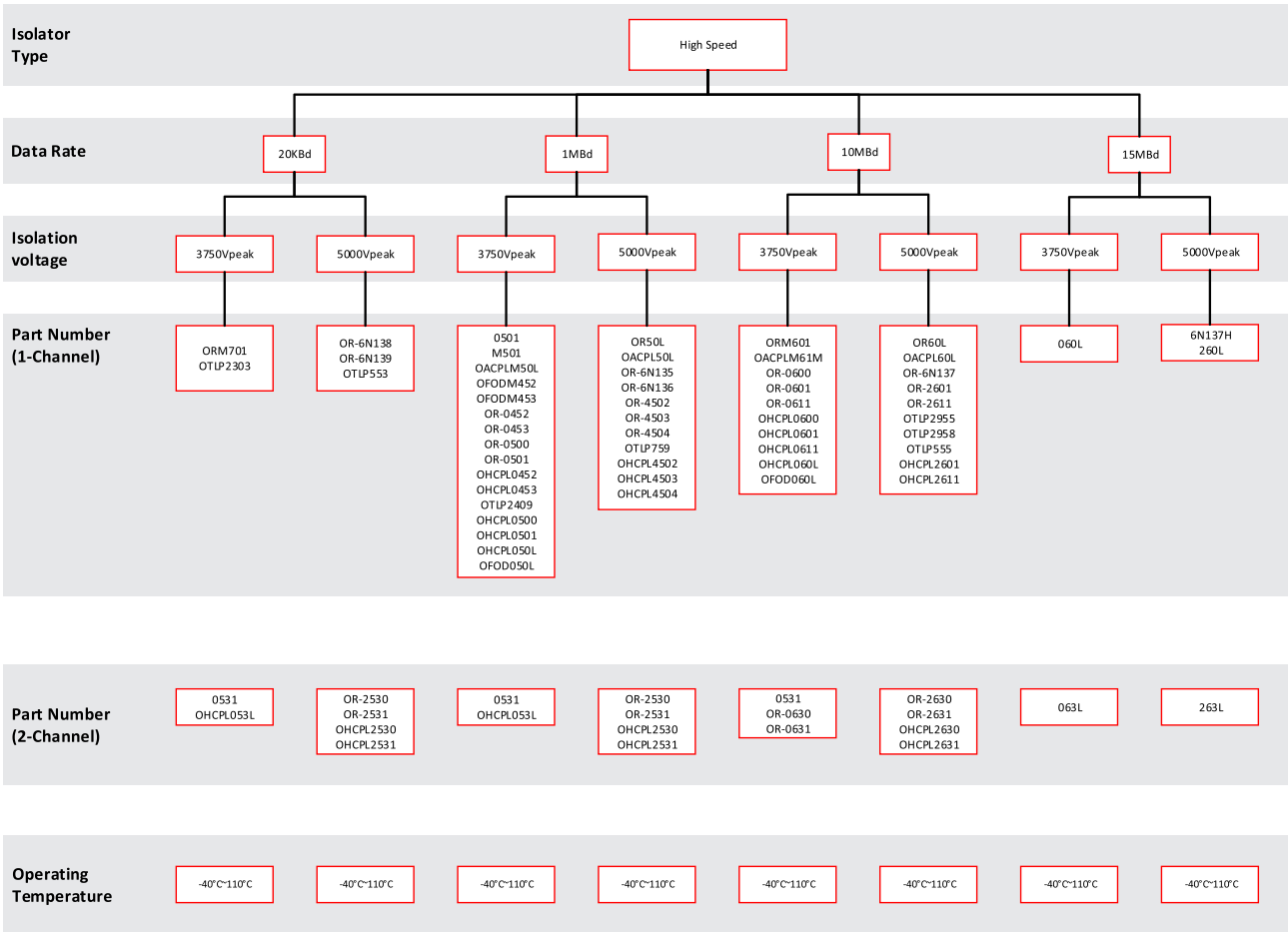
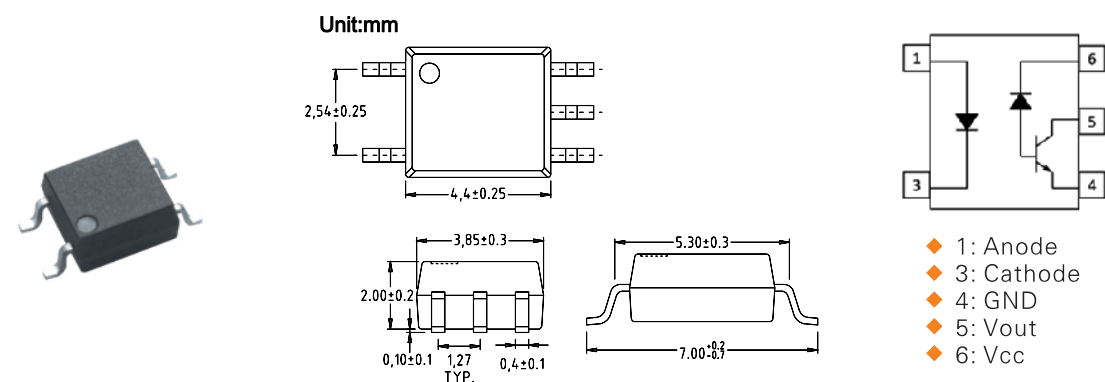
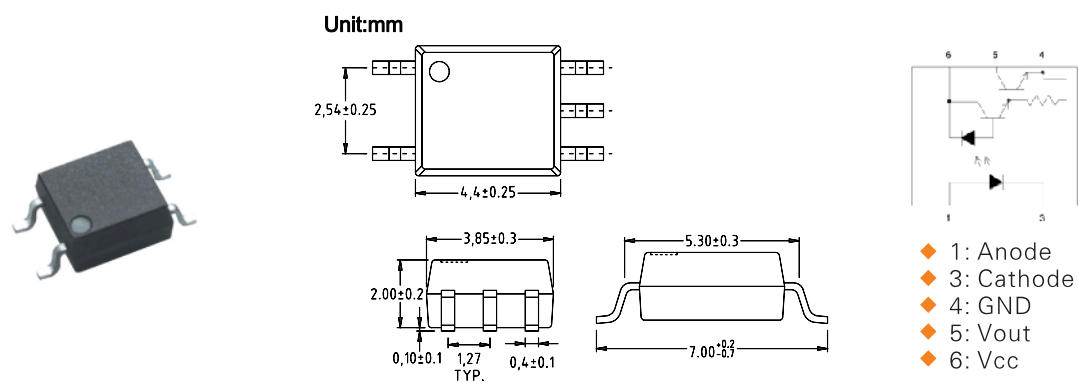


Photo Coupler | High Speed | SOP5-DC

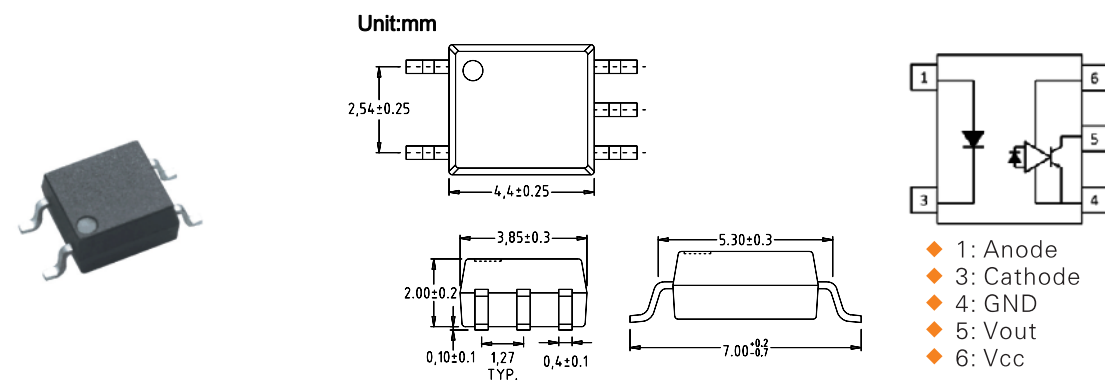


Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	CTR(%)	Viso (Vrms)	CMR (KV/us)	IO(mA)
ORM501	4.4 × 3.85 × 2	30 max.	800/800	20–50	3750	15 min.	8
OACPLM50L	4.4 × 3.85 × 2	30 max.	1000/1300	20–50	3750	15 min.	8
OFODM452	4.4 × 3.85 × 2	30 max.	800/1000	20–50	3750	5 min.	8
OFODM453	4.4 × 3.85 × 2	30 max.	800/1000	20–50	3750	15 min.	8

Photo Coupler | High Speed | SOP5-DC

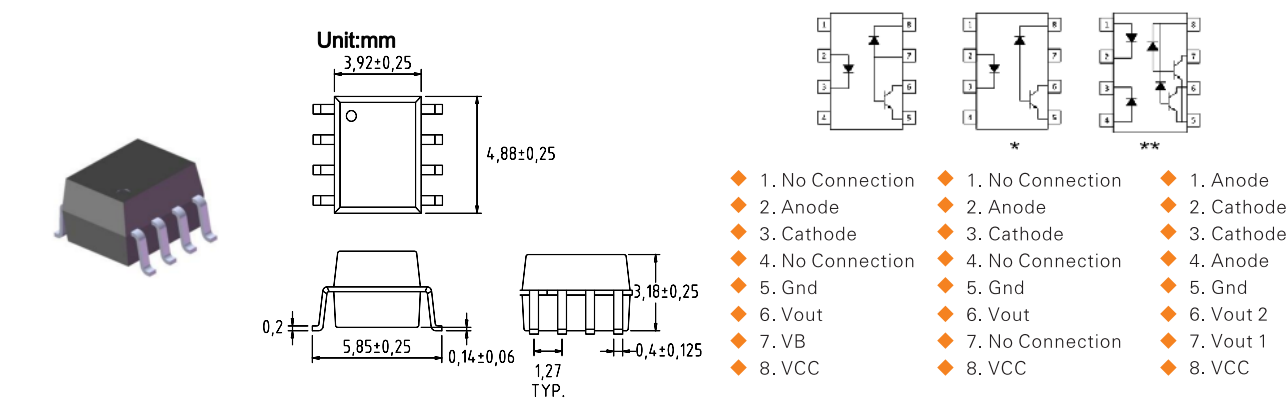


Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	CTR(%)	Viso (Vrms)	CMR (KV/us)	IO(mA)
ORM701	4.4 × 3.85 × 2	18 max.	75/60	400–3500	3750	1 min.	60 max.
OTLP2303	4.4 × 3.85 × 2	18 max.	20/90	900–8000	3750	15 min.	80 max.



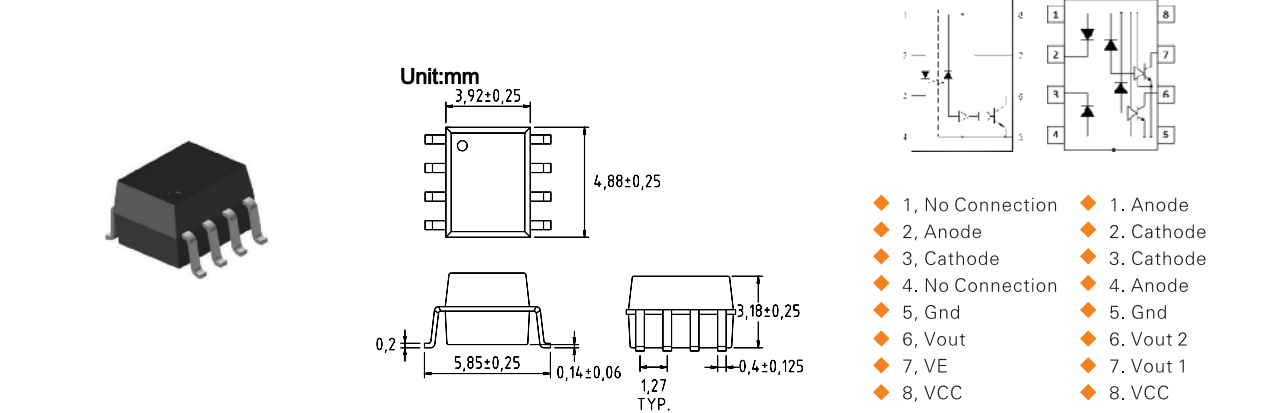
Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	IFT (mA)	Viso (Vrms)	CMR (KV/us)	IO(mA)
ORM601	4.4 × 3.85 × 2	7 max.	90/75	5	3750	10 min.	50 max.
OACPLM61 M	4.4 × 3.85 × 2	4 max.	90/90	1.5	3750	20 min.	10 max.

Photo Coupler | High Speed | SO8-DC



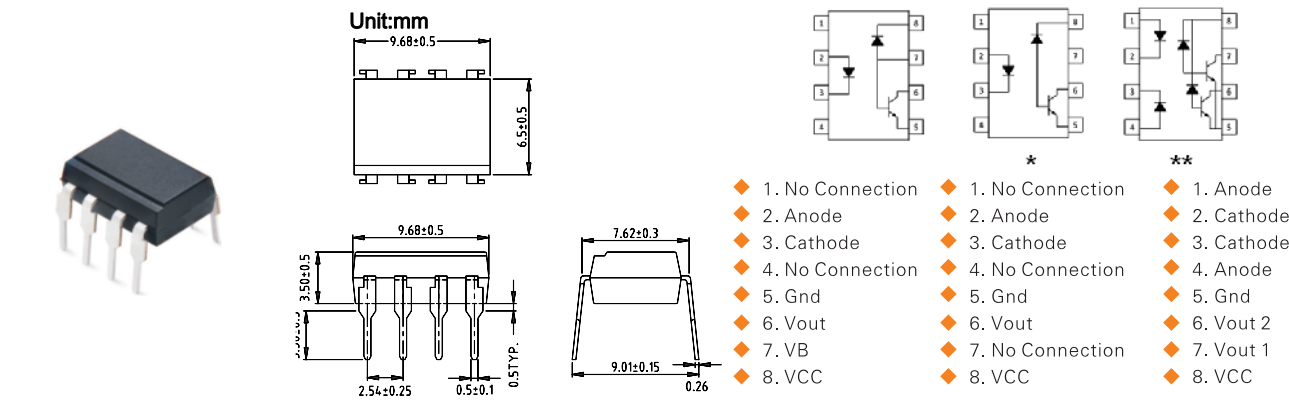
Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	CTR (%)	Viso (Vrms)	CMR (KV/us)	IO (mA)
*OR-0452	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	1	8
*OR-0453	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	15	8
OR-0500	4.88 × 3.92 × 3.18	30 max.	2000 / 2000	7-50	3750	1	8
OR-0501	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	1	8
OR-050L	4.88 × 3.92 × 3.18	30 max.	800 / 800	20-50	3750	15	8
**OR-0530	4.88 × 3.92 × 3.18	30 max.	2000 / 2000	7-50	3750	1	8
**OR-0531	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	1	8
*OHCPL0452	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	1	8
*OHCPL0453	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	15	8
*OTLP2409	4.88 × 3.92 × 3.18	30 max.	800 / 800	20 min.	3750	5	16
OHCPL0500	4.88 × 3.92 × 3.18	30 max.	2000 / 2000	7-50	3750	1	8
OHCPL0501	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	1	8
**OHCPL0530	4.88 × 3.92 × 3.18	30 max.	2000 / 2000	7-50	3750	1	8
**OHCPL0531	4.88 × 3.92 × 3.18	30 max.	1000 / 1000	19-50	3750	1	8
OHCPL053L	4.88 × 3.92 × 3.18	7 max.	800 / 800	15-50	3750	1	8
OHCPL050L	4.88 × 3.92 × 3.18	30 max.	800 / 800	20-50	3750	15	8
OFOD050L	4.88 × 3.92 × 3.18	30 max.	800 / 800	20-50	3750	15	8

Photo Coupler | High Speed | SO8-DC



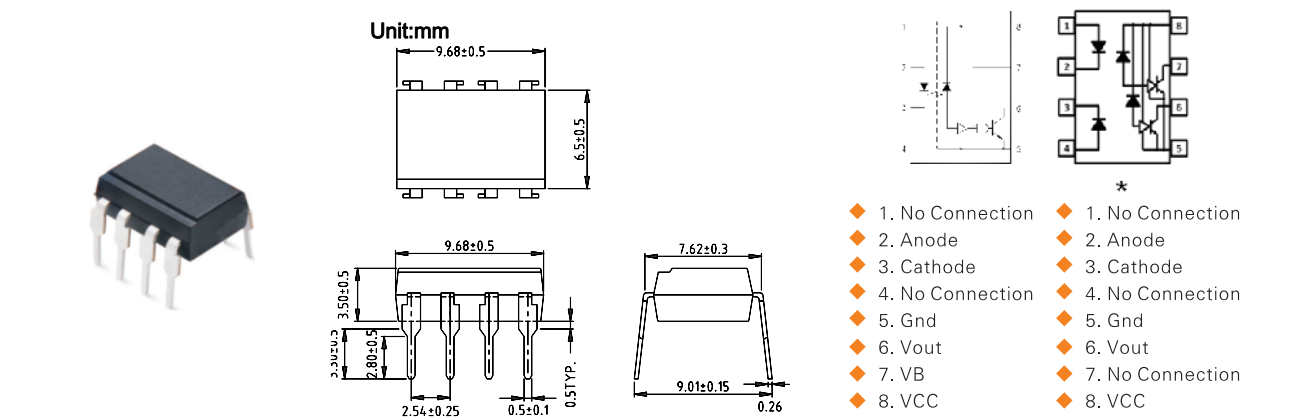
Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	IFT (mA)	Viso (Vrms)	CMR (KV/us)	IO (mA)
OR-0600	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	—	50 max.
OR-0601	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	5	50 max.
OR-0611	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	10	50 max.
OR-060L	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	10	50 max.
*OR-0630	4.88 × 3.92 × 3.18	30 max.	100/100	5	3750	5	50 max.
*OR-0631	4.88 × 3.92 × 3.18	30 max.	100/100	5	3750	10	50 max.
*OR-063L	4.88 × 3.92 × 3.18	30 max.	100/100	5	3750	10	50 max.
OHCPL0600	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	—	50 max.
OHCPL0601	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	5	50 max.
OHCPL0611	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	10	50 max.
*OHCPL063L	4.88 × 3.92 × 3.18	30 max.	100/100	5	3750	10	50 max.
OHCPL060L	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	10	50 max.
OFOD060L	4.88 × 3.92 × 3.18	30 max.	75/75	5	3750	10	50 max.

Photo Coupler | High Speed | DIP8-DC



Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	CTR (%)	Viso (Vrms)	CMR (KV/us)	IO (mA)
OR-6N135	9.68 × 6.5 × 3.5	30 max.	2000 / 2000	7-50	5000	1	8
OR-6N136	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	1	8
*OR-4502	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	1	8
*OR-4503	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	15	8
*OR-4504	9.68 × 6.5 × 3.5	30 max.	400 / 400	25-60	5000	15	8
**OR-2530	9.68 × 6.5 × 3.5	30 max.	2000 / 2000	7-50	5000	1	8
**OR-2531	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	1	8
*OTLP759	9.68 × 6.5 × 3.5	30 max.	800/800	20 min.	5000	5	8
*OHCPL4502	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	1	8
*OHCPL4503	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	15	8
*OHCPL4504	9.68 × 6.5 × 3.5	30 max.	400 / 400	25-60	5000	15	8
**OHCPL2530	9.68 × 6.5 × 3.5	30 max.	2000 / 2000	7-50	5000	1	8
**OHCPL2531	9.68 × 6.5 × 3.5	30 max.	1000 / 1000	19-50	5000	1	8

Photo Coupler | High Speed | DIP8-DC



Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	IFT (mA)	Viso (Vrms)	CMR (KV/us)	IO (mA)
OR-6N137	9.68 × 6.5 × 3.5	7 max.	75 / 75	5	5000	—	50 max.
OR-2601	9.68 × 6.5 × 3.5	7 max.	75 / 75	5	5000	5	50 max.
OR-2611	9.68 × 6.5 × 3.5	7 max.	75 / 75	5	5000	10	50 max.
OR-260L	9.68 × 6.5 × 3.5	7 max.	75 / 75	5	5000	10	50 max.
*OR-2630	9.68 × 6.5 × 3.5	7 max.	100 / 100	5	5000	5	50 max.
*OR-2631	9.68 × 6.5 × 3.5	7 max.	100 / 100	5	5000	10	50 max.
OTLP2955	9.68 × 6.5 × 3.5	20 max.	250 / 250	1.6	5000	20	25 max.
OTLP2958	9.68 × 6.5 × 3.5	20 max.	250 / 250	1.6	5000	20	25 max.
OTLP555	9.68 × 6.5 × 3.5	20 max.	400 / 400	1.6	5000	1	40 max.
OHCPL2601	9.68 × 6.5 × 3.5	7 max.	75 / 75	5	5000	5	50 max.
OHCPL2611	9.68 × 6.5 × 3.5	7 max.	75 / 75	5	5000	10	50 max.
*OHCPL2630	9.68 × 6.5 × 3.5	7 max.	100 / 100	5	5000	5	50 max.
*OHCPL2631	9.68 × 6.5 × 3.5	7 max.	100 / 100	5	5000	10	50 max.

Photocoupler

Photo Coupler | High Speed | DIP8-DC

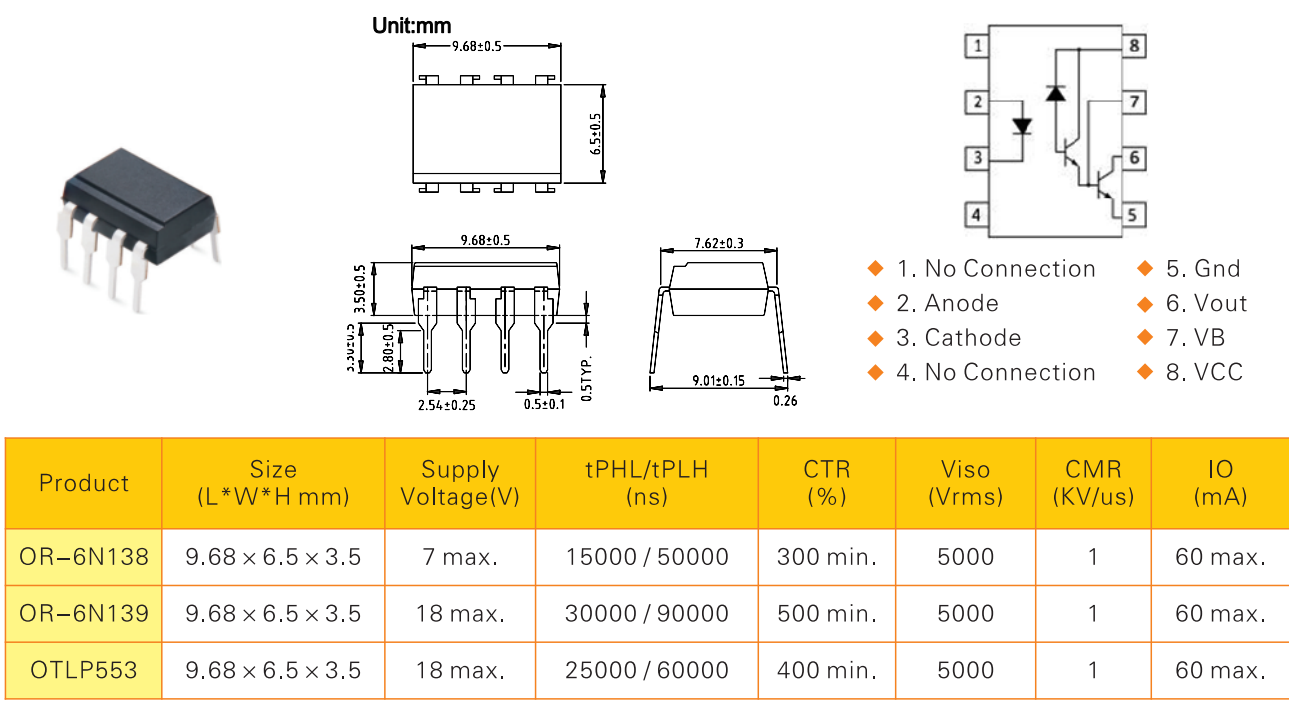


Photo Coupler | High Speed | LSO6-DC

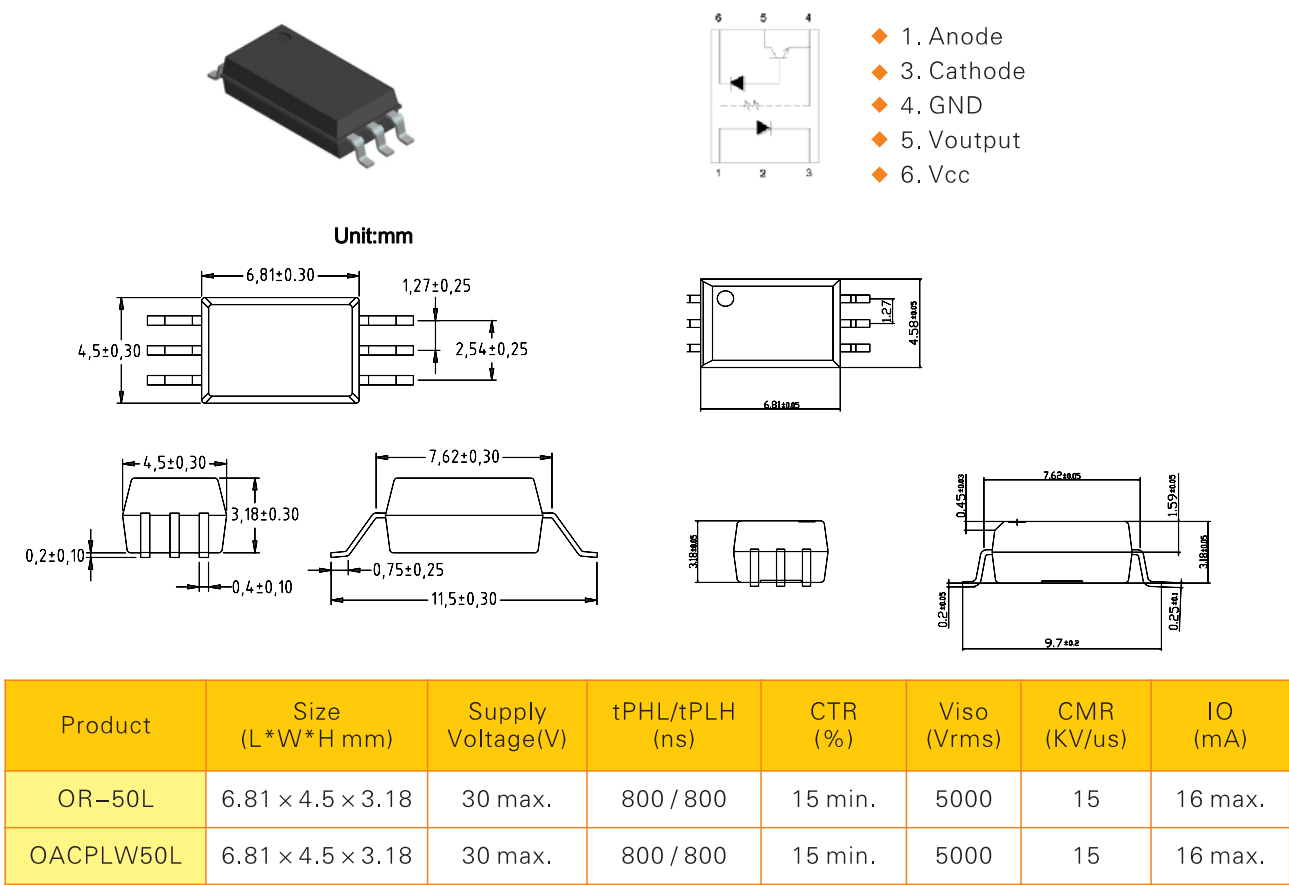


Photo Coupler | High Speed | LSO6-DC

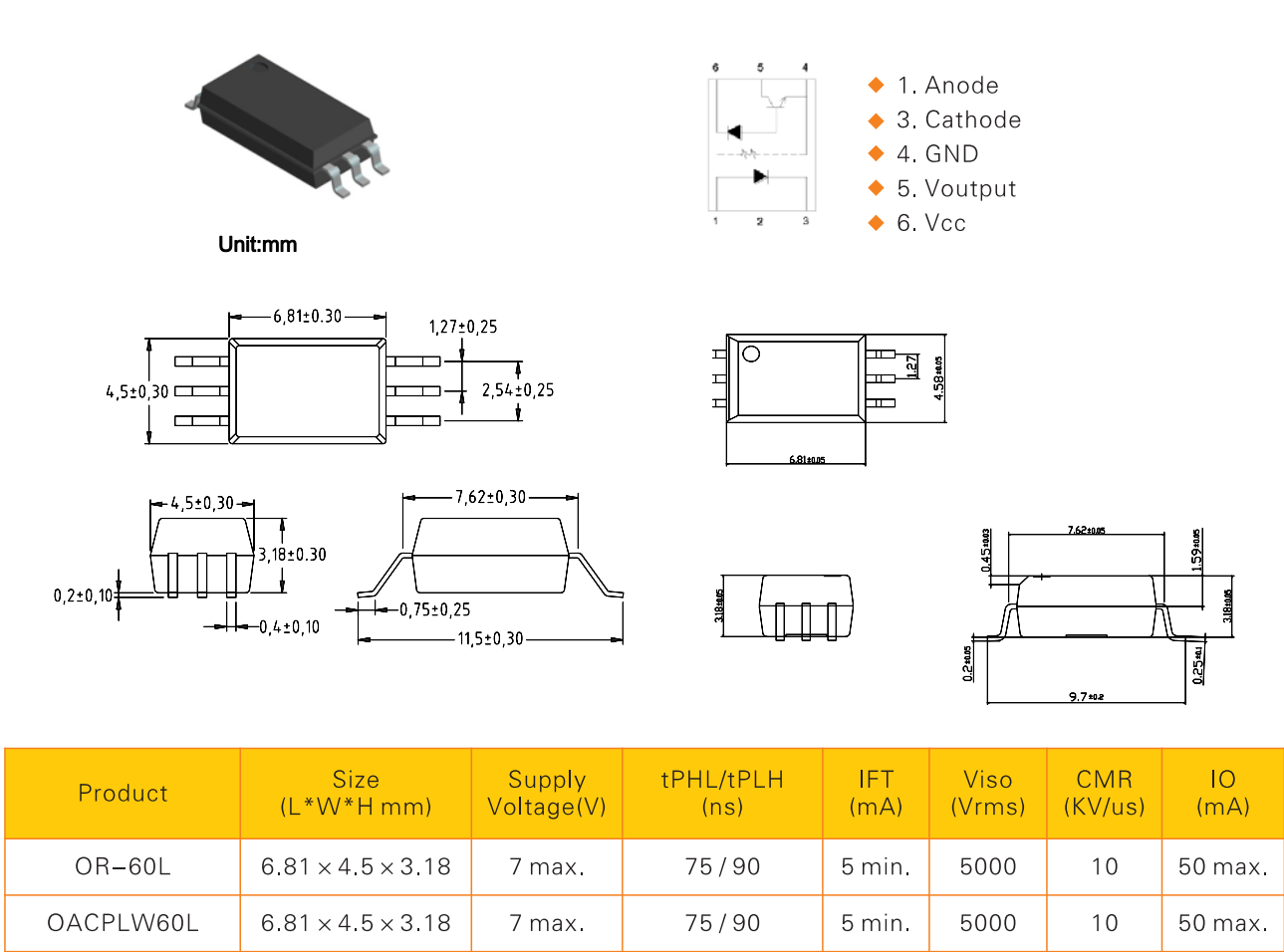
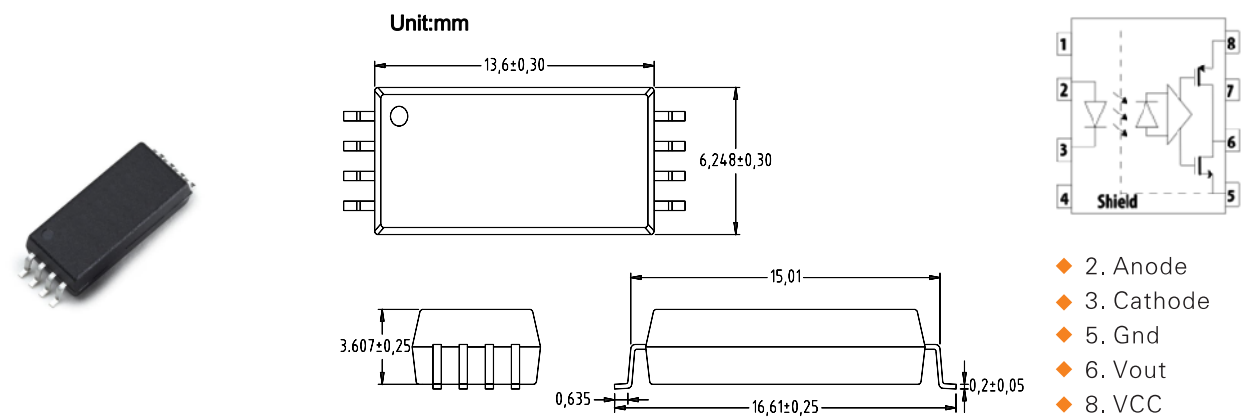


Photo Coupler | High Speed | LSO8-DC



Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	IFT (mA)	Viso (Vrms)	CMR (KV/us)	IO (mA)
OR-H61L	13.6 × 6.248 × 3.607	20 max.	1000 / 100	3.8	7500	20	10 max.
OACNTH61L	13.6 × 6.248 × 3.607	20 max.	1000 / 100	3.8	7500	20	10 max.

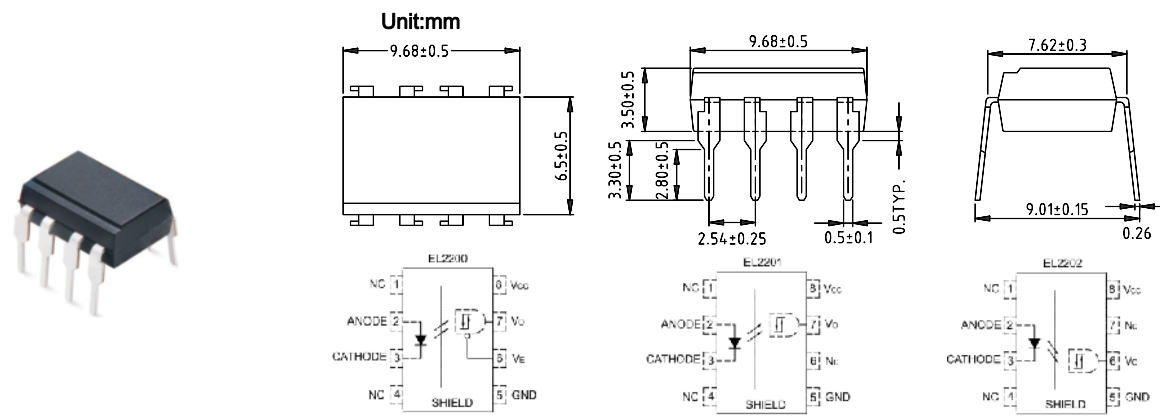
Schmitt Trigger

Schmitt Trigger series of devices each consist of a high-speed integrated circuit detector optically coupled to infrared emitting diode. The output incorporates a Schmitt Trigger which provides hysteresis for noise immunity and pulse shaping.

Application

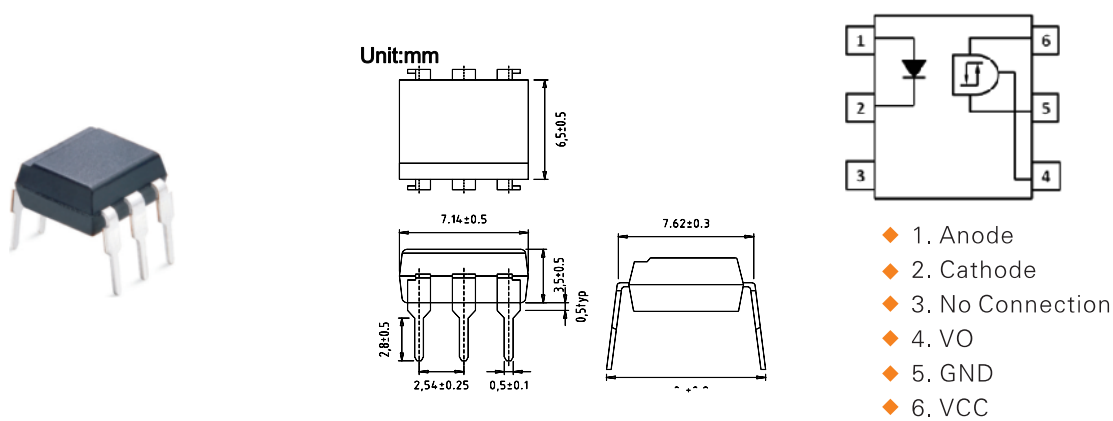
- ◆ Logic to logic isolator
- ◆ Programmable current level sensor
- ◆ Line receiver—eliminate noise and transient problems
- ◆ Digital programming of power supplies
- ◆ A.C. to TTL conversion—square wave shaping
- ◆ Interfaces computers with peripherals

Photo Coupler | High Speed Low Input Current | DIP8-DC



Product	Size (L*W*H mm)	Supply Voltage(V)	tPHL/tPLH (ns)	IFT (mA)	Viso (Vrms)	CMR (KV/us)	IO (mA)
OR-2200	9.68 × 6.5 × 3.5	20 max.	300 / 300	1.6	5000	1	25 max.
OR-2201	9.68 × 6.5 × 3.5	20 max.	300 / 300	1.6	5000	1	25 max.
OR-2202	9.68 × 6.5 × 3.5	20 max.	300 / 300	1.6	5000	1	25 max.

Photo Coupler | Schmitt Trigger | DIP6-DC



Product	Size (L*W*H mm)	Supply Voltage(V)	Rise/Fall Time(us)	IFT (mA)	Viso (Vrms)	ICC_Max (mA)	IO (mA)
OR-H11L1	7.14 × 6.5 × 3.5	3-15	0.1 / 0.1	1.6	5000	5	50 max.

Triac

Triac Driver series of devices each consist of a GaAs infrared LED optically coupled to a monolithic photosensitive non-zero crossing triac detector chip or a monolithic photosensitive zero crossing triac detector chip. They are packaged in DIP4 / DIP6 / SOP4 Plastic body, DIP4 / DIP6 is packaged with wide-lead spacing and SMD options. Triac driver series is equipped with non zero crossing and zero crossing SCR driver outputs. The repetitive peak off state voltage V_{drm} can reach a maximum of 800V. Input trigger current I_{ft} starts led required to latch output with a minimum of 3mA. All High Triac Driver series products through the German VDE and UL certification, product Operating temperature up to + 115° C. The isolation pressure between the input and output of the optocoupler can be up to 3750Vrms or 5000Vrms depending on the type of package. Detailed product parameters can be found in the table below.

Application

- ◆ AC Motor Drives
- ◆ AC Motor Starters
- ◆ Static Power Switches
- ◆ Lighting Controls
- ◆ E.M. Contactors
- ◆ Solid State Relays
- ◆ Solenoid/Valve Controls
- ◆ Temperature Controls

Triac

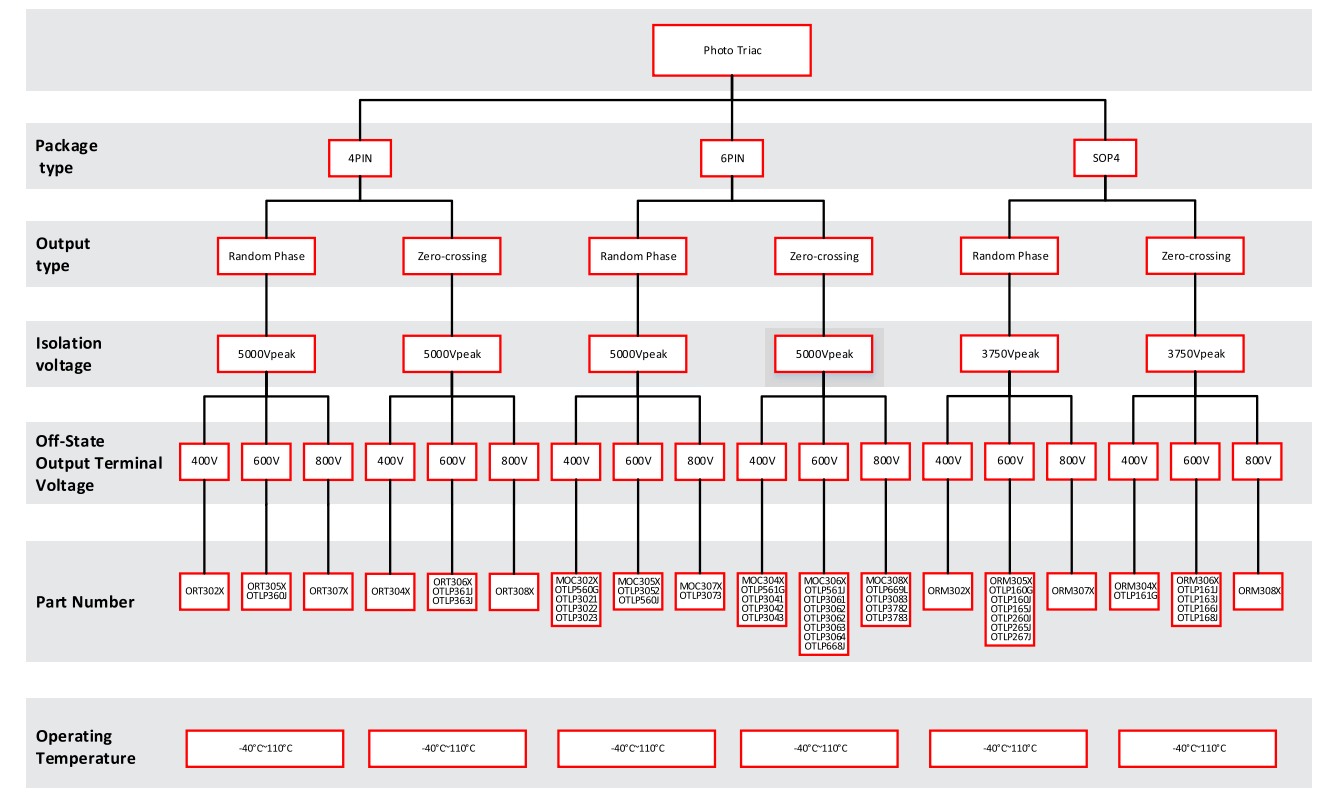
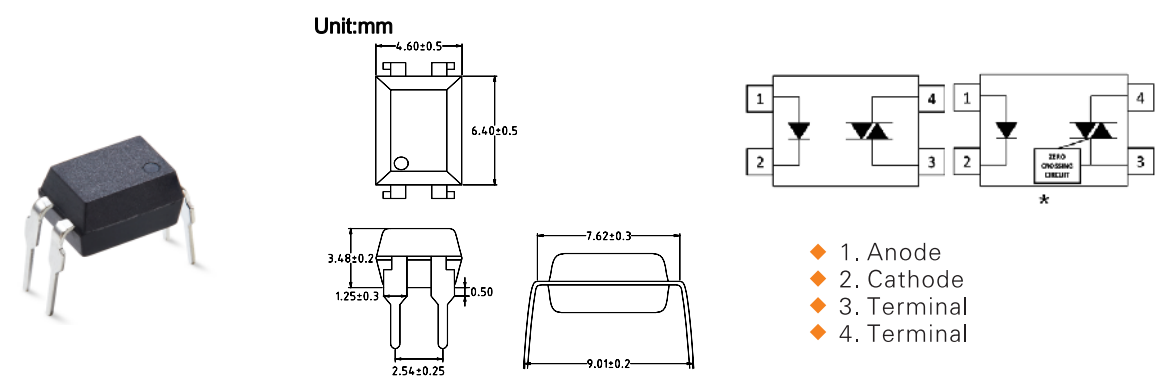
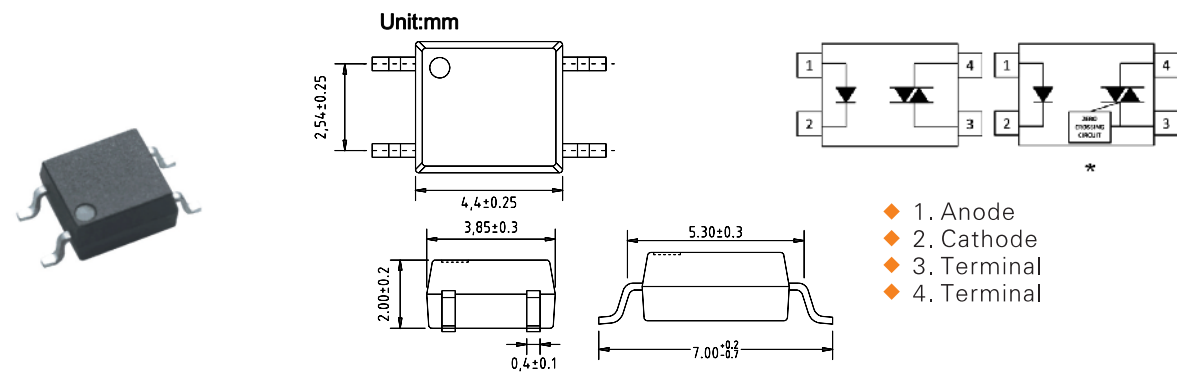


Photo Coupler | Triac | DIP4-DC



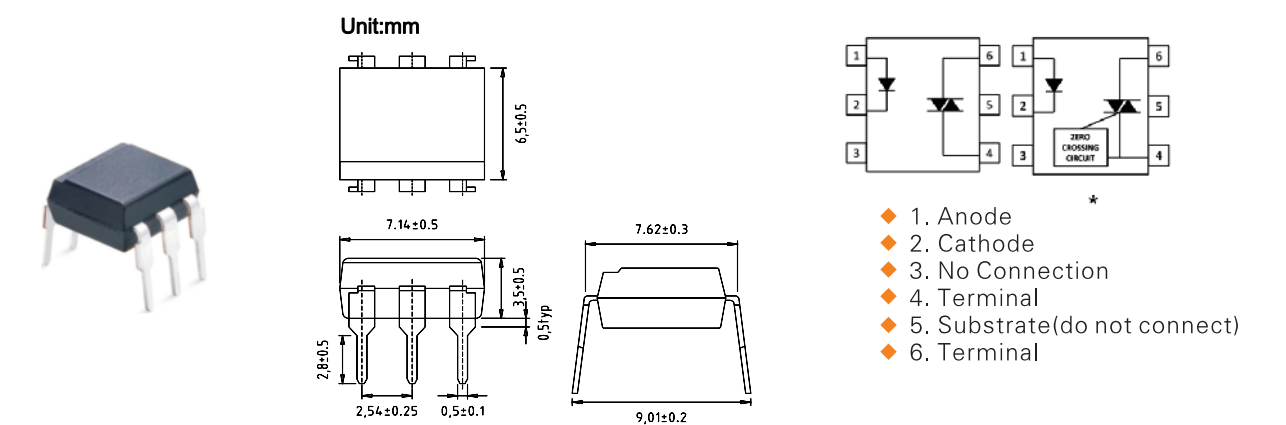
Product	Size (L*W*H mm)	VTM (V)	VINH (V)	VDRM (V)	Viso (Vrms)	VF_Max (V)	IFT (mA)
OR-T3021	6.4 × 4.6 × 3.5	2.5	—	400	5000	1.5	15
OR-T3022	6.4 × 4.6 × 3.5	2.5	—	400	5000	1.5	10
OR-T3023	6.4 × 4.6 × 3.5	2.5	—	400	5000	1.5	5
OR-T3051	6.4 × 4.6 × 3.5	2.5	—	600	5000	1.5	15
OR-T3052	6.4 × 4.6 × 3.5	2.5	—	600	5000	1.5	10
OR-T3053	6.4 × 4.6 × 3.5	2.5	—	600	5000	1.5	5
*OR-T3041	6.4 × 4.6 × 3.5	3	20	400	5000	1.5	15
*OR-T3042	6.4 × 4.6 × 3.5	3	20	400	5000	1.5	10
*OR-T3043	6.4 × 4.6 × 3.5	3	20	400	5000	1.5	5
*OR-T3061	6.4 × 4.6 × 3.5	3	20	600	5000	1.5	15
*OR-T3062	6.4 × 4.6 × 3.5	3	20	600	5000	1.5	10
*OR-T3063	6.4 × 4.6 × 3.5	3	20	600	5000	1.5	5
*OR-T3081	6.4 × 4.6 × 3.5	3	20	800	5000	1.5	15
*OR-T3082	6.4 × 4.6 × 3.5	3	20	800	5000	1.5	10
*OR-T3083	6.4 × 4.6 × 3.5	3	20	800	5000	1.5	5
OTLP360J	6.4 × 4.6 × 3.5	3	20	600	5000	1.5	10
*OTLP361J	6.4 × 4.6 × 3.5	3	20	600	5000	1.5	10
*OTLP363J	6.4 × 4.6 × 3.5	3	20	600	5000	1.5	10

Photo Coupler | Triac | SOP4-DC



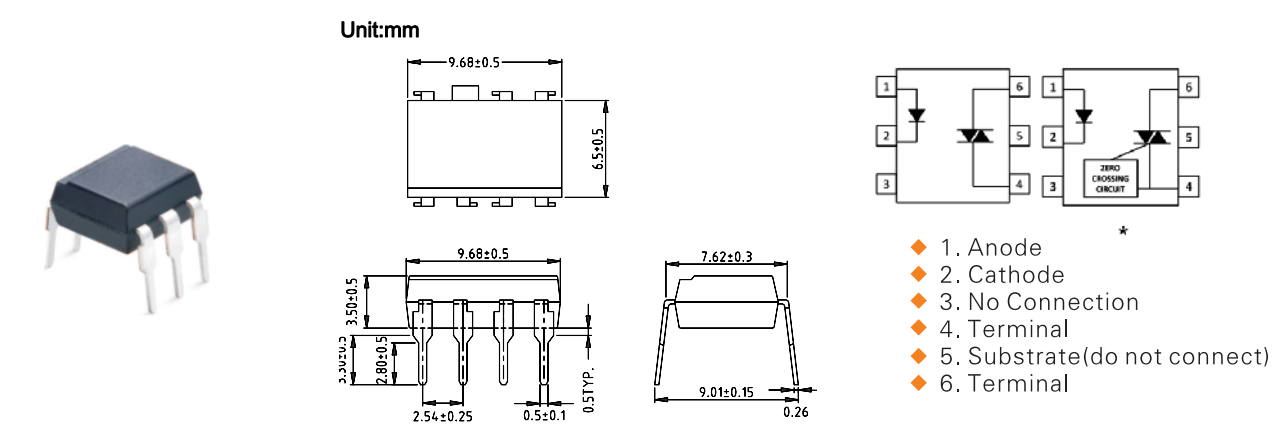
Product	Size (L*W*H mm)	VTM (V)	VINH (V)	VDRM (V)	Viso (Vrms)	VF_Max (V)	IFT (mA)
OR-M3022	4.4 × 2.6 × 2	2.5	—	400	3750	1.2	10
OR-M3023	4.4 × 2.6 × 2	2.5	—	400	3750	1.2	5
OR-M3024	4.4 × 2.6 × 2	2.5	—	400	3750	1.2	3
OR-M3052	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	10
OR-M3053	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	5
OR-M3054	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	3
*OR-M3042	4.4 × 2.6 × 2	3	20	400	3750	1.5	10
*OR-M3043	4.4 × 2.6 × 2	3	20	400	3750	1.5	5
*OR-M3044	4.4 × 2.6 × 2	3	20	400	3750	1.5	3
*OR-M3062	4.4 × 2.6 × 2	3	20	600	3750	1.5	10
*OR-M3063	4.4 × 2.6 × 2	3	20	600	3750	1.5	5
*OR-M3064	4.4 × 2.6 × 2	3	20	600	3750	1.5	3
*OR-M3082	4.4 × 2.6 × 2	3	20	800	3750	1.5	10
*OR-M3083	4.4 × 2.6 × 2	3	20	800	3750	1.5	5
*OR-M3084	4.4 × 2.6 × 2	3	20	800	3750	1.5	3
OTLP160G	4.4 × 2.6 × 2	2.5	—	400	3750	1.2	10
OTLP160J	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	10
OTLP165J	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	10
OTLP260J	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	10
OTLP265J	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	10
OTLP267J	4.4 × 2.6 × 2	2.5	—	600	3750	1.2	3
*OTLP161G	4.4 × 2.6 × 2	3	20	400	3750	1.5	10
*OTLP161J	4.4 × 2.6 × 2	3	20	600	3750	1.2	10
*OTLP163J	4.4 × 2.6 × 2	3	20	600	3750	1.2	10
*OTLP166J	4.4 × 2.6 × 2	3	20	600	3750	1.2	10
*OTLP168J	4.4 × 2.6 × 2	3	20	600	3750	1.2	3
*OTLP261J	4.4 × 2.6 × 2	3	20	600	3750	1.2	10
*OTLP266J	4.4 × 2.6 × 2	3	20	600	3750	1.2	10
*OTLP268J	4.4 × 2.6 × 2	3	20	600	3750	1.2	3

Photo Coupler | Triac | DIP6-DC



Product	Size (L*W*H mm)	VTM (V)	VINH (V)	VDRM (V)	Viso (Vrms)	VF_Max (V)	IFT (mA)
OR-MOC3010	7.14 × 6.5 × 3.5	2.5	—	250	5000	1.2	15
OR-MOC3011	7.14 × 6.5 × 3.5	2.5	—	250	5000	1.2	10
OR-MOC3012	7.14 × 6.5 × 3.5	2.5	—	250	5000	1.2	5
OR-MOC3021	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	15
OR-MOC3022	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	10
OR-MOC3023	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	5
OR-MOC3051	7.14 × 6.5 × 3.5	2.5	—	600	5000	1.2	15
OR-MOC3052	7.14 × 6.5 × 3.5	2.5	—	600	5000	1.2	10
OR-MOC3053	7.14 × 6.5 × 3.5	2.5	—	600	5000	1.2	5
*OR-MOC3031	7.14 × 6.5 × 3.5	3	20	250	5000	1.2	15
*OR-MOC3032	7.14 × 6.5 × 3.5	3	20	250	5000	1.2	10
*OR-MOC3033	7.14 × 6.5 × 3.5	3	20	250	5000	1.2	5
*OR-MOC3041	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	15
*OR-MOC3042	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	10
*OR-MOC3043	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	5
*OR-MOC3061	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	15
*OR-MOC3062	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	10
*OR-MOC3063	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	5
*OR-MOC3081	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	15
*OR-MOC3082	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	10
*OR-MOC3083	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	5
OTLP560G	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	10
OTLP3021	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	15
OTLP3022	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	10

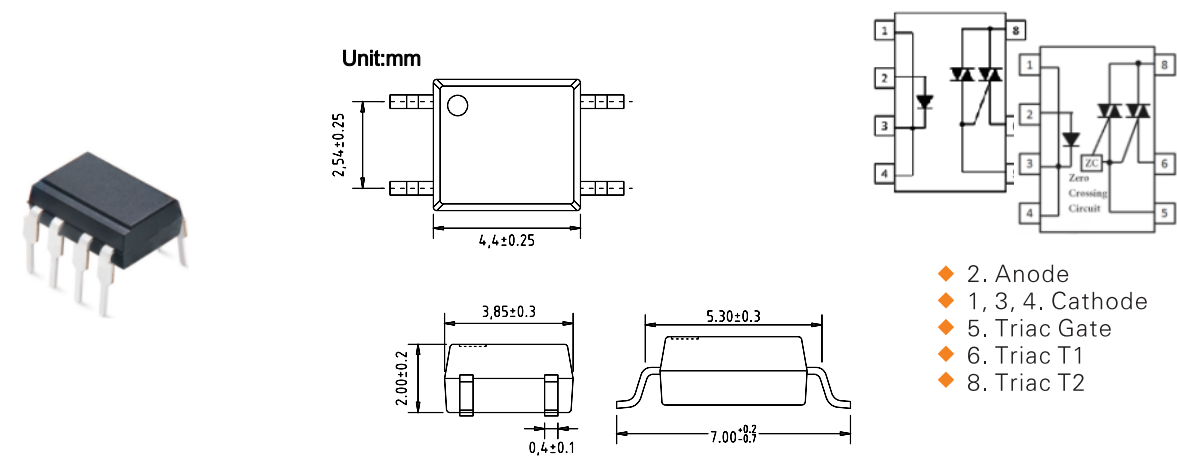
Photo Coupler | Triac | DIP6-DC



Product	Size (L*W*H mm)	VTM (V)	VINH (V)	VDRM (V)	Viso (Vrms)	VF_Max (V)	IFT (mA)
OTLP3023	7.14 × 6.5 × 3.5	2.5	—	400	5000	1.2	5
OTLP3052A	7.14 × 6.5 × 3.5	2.5	—	600	5000	1.2	10
OTLP560J	7.14 × 6.5 × 3.5	2.5	—	600	5000	1.2	10
OTLP3073	7.14 × 6.5 × 3.5	2.5	—	800	5000	1.2	5
*OTLP561G	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	10
*OTLP3041	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	15
*OTLP3042	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	10
*OTLP3043	7.14 × 6.5 × 3.5	3	20	400	5000	1.2	5
*OTLP561J	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	10
*OTLP3061(S)	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	15
*OTLP3062(S)	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	10
*OTLP3062A	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	10
*OTLP3063(S)	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	5
*OTLP3064(S)	7.14 × 6.5 × 3.5	3	20	600	5000	1.2	3
*OTLP668J(S)	7.14 × 6.5 × 3.5	3	50	600	5000	1.2	3
*OTLP669L	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	10
*OTLP3083	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	5
*OTLP3782(S)	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	10
*OTLP3783(S)	7.14 × 6.5 × 3.5	3	20	800	5000	1.2	5

Photocoupler

Photo Coupler | Photo Power Triac | DIP7-DC



Product	Size (L*W*H mm)	VTM (V)	IT (rms)(A)	VDRM (V)	Viso (Vrms)	ITSM (A)	IFT (mA)
OR-0223	9.68 × 6.5 × 3.5	2.5	0.3	600	5000	3	10
OR-1223	9.68 × 6.5 × 3.5	2.5	0.6	600	5000	6	10
OR-2223	9.68 × 6.5 × 3.5	2.5	0.9	600	5000	9	10
OR-3223	9.68 × 6.5 × 3.5	2.5	1.2	600	5000	12	10
*OR0213	9.68 × 6.5 × 3.5	2.5	0.3	600	5000	3	10
*OR1213	9.68 × 6.5 × 3.5	2.5	0.6	600	5000	6	10
*OR2213	9.68 × 6.5 × 3.5	2.5	0.9	600	5000	9	10
*OR3213	9.68 × 6.5 × 3.5	2.5	1.2	600	5000	12	10
OAQH0223	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	3	10
OAQH1223	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	6	10
OAQH2223	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	9	10
OAQH3223	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	12	10
*OAQH0213	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	3	10
*OAQH1213	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	6	10
*OAQH2213	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	9	10
*OAQH3213	9.68 × 6.5 × 3.5	2.5	2.5	600	5000	12	10

Solid State Relay

The solid state relays series photocoupler containing an AlGaAs infrared LEDs on the light emitting side (input side) optically coupled to a high voltage output detector circuit. The detector consists of a photovoltaic diode array and MOSFETs on the output side. They are packaged in DIP4\DIP6\DIP8 and available in surface mount SMD option. 6-pin DIP size can enable AC/DC and DC only output connections. The single channel configuration is equivalent to 1 form A EMR. At the same time, it has a dual channel solid state relays of 8-pin dip size, is configuration is equivalent to 1 form A EMR. Detailed product parameters can be found in the table below.

Application

- ◆ Exchange equipment
- ◆ Measurement equipment
- ◆ FA/OA equipment
- ◆ Industrial controls
- ◆ Security

Solid State Relay

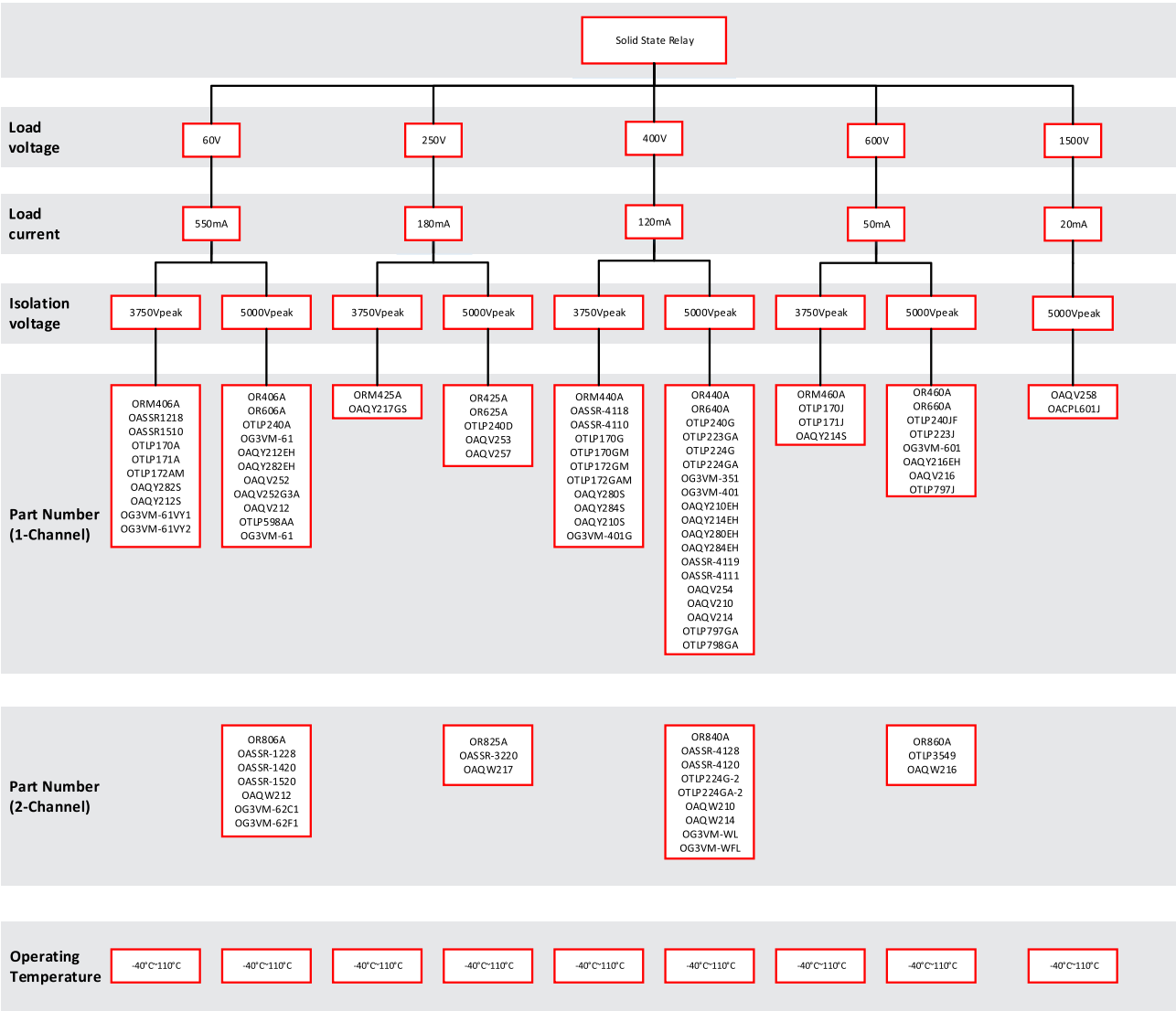
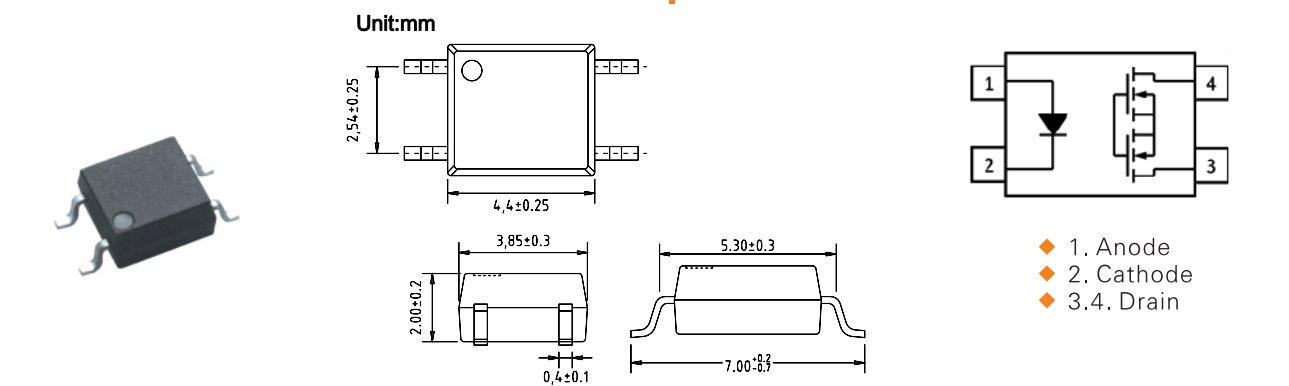
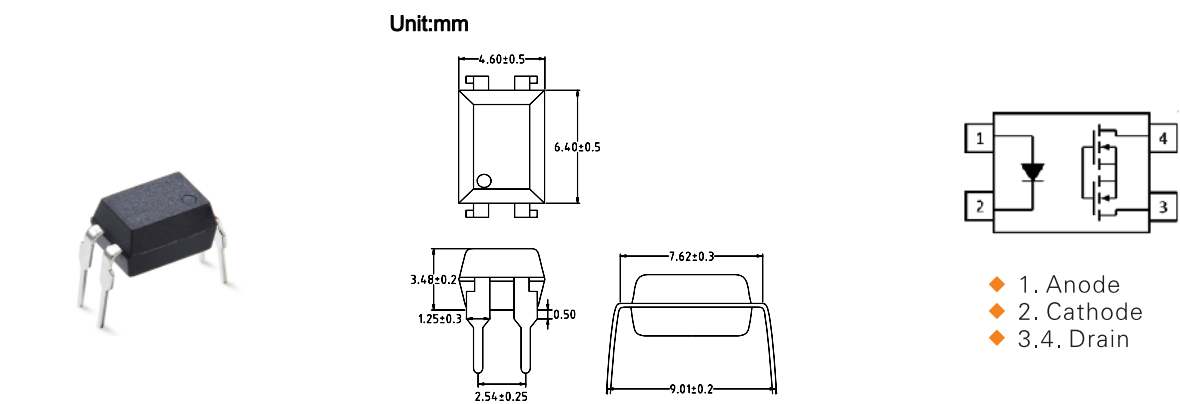


Photo Coupler | Solid State Relay | SOP4-DC



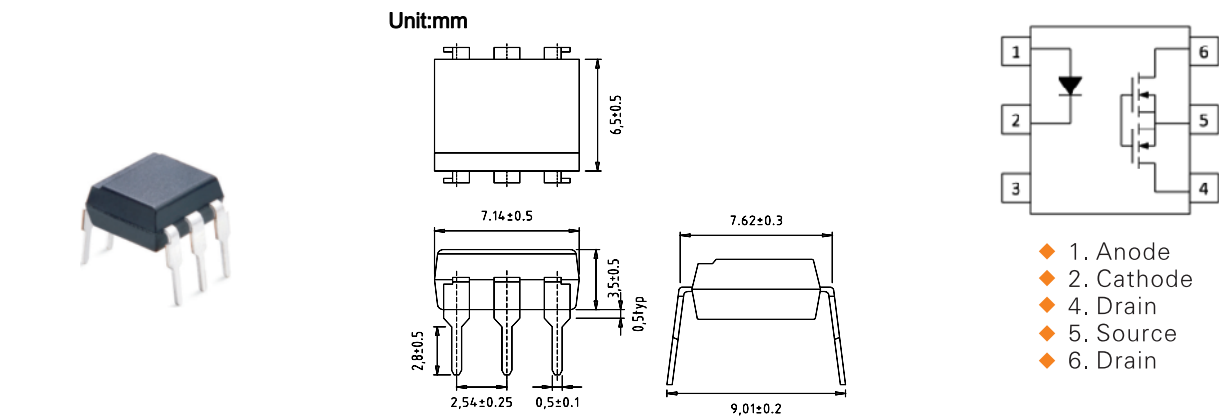
Product	Size (L*W*H mm)	Output type	Load Voltage (V)	Load Current (mA)	Ron Typ. (Ω)	Ifon max. (mA)	Viso (Vrms)
OR-M440A	4.4 × 3.85 × 2	Normally Open 1 Form A	400	120	20	5	3750
OR-M460A	4.4 × 3.85 × 2	Normally Open 1 Form A	600	50	40	5	3750
OASSR1218	4.4 × 3.85 × 2	Normally Open 1 Form A	60	200	10	20	3750
OASSR1510	4.4 × 3.85 × 2	Normally Open 1 Form A	60	1000	0.5	20	3750
OASSR-4118	4.4 × 3.85 × 2	Normally Open 1 Form A	400	100	35	20	3750
OASSR-4110	4.4 × 3.85 × 2	Normally Open 1 Form A	400	120	25	20	3750
OTLP170A	4.4 × 3.85 × 2	Normally Open 1 Form A	60	400	1	1	3750
OTLP171A	4.4 × 3.85 × 2	Normally Open 1 Form A	60	400	1	0.1	3750
OTLP172AM	4.4 × 3.85 × 2	Normally Open 1 Form A	60	500	1	3	3750
OTLP170G	4.4 × 3.85 × 2	Normally Open 1 Form A	350	110	22	1	3750
OTLP170GM	4.4 × 3.85 × 2	Normally Open 1 Form A	350	110	22	1	3750
OTLP172GM	4.4 × 3.85 × 2	Normally Open 1 Form A	350	110	22	3	3750
OTLP172GAM	4.4 × 3.85 × 2	Normally Open 1 Form A	400	110	30	3	3750
OTLP170J	4.4 × 3.85 × 2	Normally Open 1 Form A	600	90	35	1	3750
OTLP171J	4.4 × 3.85 × 2	Normally Open 1 Form A	600	70	35	0.02	3750
OAQY282S	4.4 × 3.85 × 2	Normally Open 1 Form A	60	500	0.85	3	3750
OAQY280S	4.4 × 3.85 × 2	Normally Open 1 Form A	350	120	20	3	3750
OAQY284S	4.4 × 3.85 × 2	Normally Open 1 Form A	400	100	28	3	3750
OAQY212S	4.4 × 3.85 × 2	Normally Open 1 Form A	60	500	0.83	3	3750
OAQY217GS	4.4 × 3.85 × 2	Normally Open 1 Form A	200	400	1.8	3	3750
OAQY210S	4.4 × 3.85 × 2	Normally Open 1 Form A	350	120	17	3	3750
OAQY214S	4.4 × 3.85 × 2	Normally Open 1 Form A	600	100	25	3	3750
OG3VM-61VY1	4.4 × 3.85 × 2	Normally Open 1 Form A	60	100	25	3	3750
OG3VM-61VY2	4.4 × 3.85 × 2	Normally Open 1 Form A	60	500	1	3	3750
OG3VM-401G	4.4 × 3.85 × 2	Normally Open 1 Form A	400	120	17	3	3750

Photo Coupler | Solid State Relay | DIP4-DC



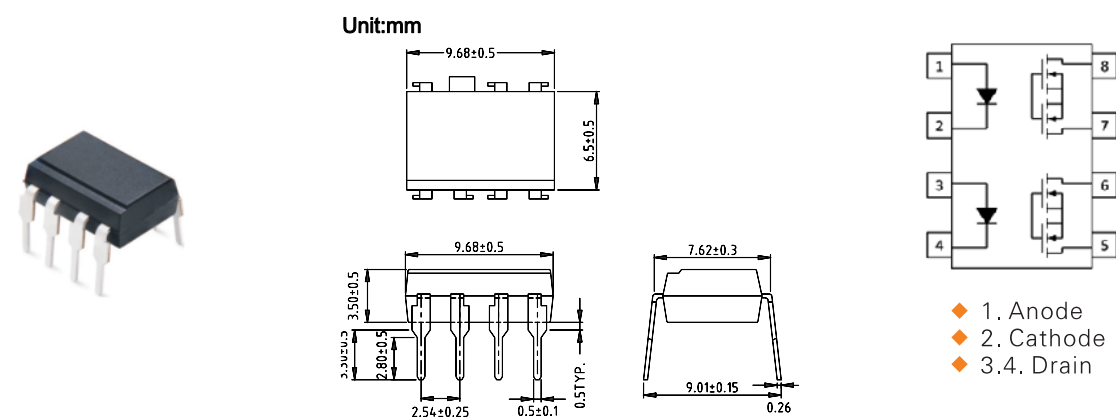
Product	Size (L*W*H mm)	Output type	Load Voltage (V)	Load Current (mA)	Ron Typ. (Ω)	Ifon max. (mA)	Viso (Vrms)
OR-406A	6.4 × 4.6 × 3.5	Normally Open 1 Form A	60	550	0.75	5	5000
OR-425A	6.4 × 4.6 × 3.5	Normally Open 1 Form A	250	180	6.5	5	5000
OR-440A	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	20	5	5000
OR-460A	6.4 × 4.6 × 3.5	Normally Open 1 Form A	600	50	40	5	5000
OTLP240A	6.4 × 4.6 × 3.5	Normally Open 1 Form A	60	550	0.75	5	5000
OTLP240D	6.4 × 4.6 × 3.5	Normally Open 1 Form A	250	180	6.5	5	5000
OTLP240G	6.4 × 4.6 × 3.5	Normally Open 1 Form A	350	100	35	3	5000
OTLP240JF	6.4 × 4.6 × 3.5	Normally Open 1 Form A	600	90	45	3	5000
OTLP223GA	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	20	5	5000
OTLP223J	6.4 × 4.6 × 3.5	Normally Open 1 Form A	600	90	45	2	5000
OTLP224G	6.4 × 4.6 × 3.5	Normally Open 1 Form A	350	120	22	3	5000
OTLP224GA	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	17	3	5000
OG3VM-61	6.4 × 4.6 × 3.5	Normally Open 1 Form A	60	500	0.6	3	5000
OG3VM-351	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	20	5	5000
OG3VM-401	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	20	5	5000
OG3VM-601	6.4 × 4.6 × 3.5	Normally Open 1 Form A	600	50	40	5	5000
OAQY212EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	60	550	0.75	5	5000
OAQY210EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	350	130	18	5	5000
OAQY214EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	20	5	5000
OAQY216EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	600	50	40	5	5000
OAQY282EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	60	550	0.75	5	5000
OAQY280EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	350	130	18	5	5000
OAQY284EH	6.4 × 4.6 × 3.5	Normally Open 1 Form A	400	120	20	5	5000

Photo Coupler | Solid State Relay | DIP6-DC



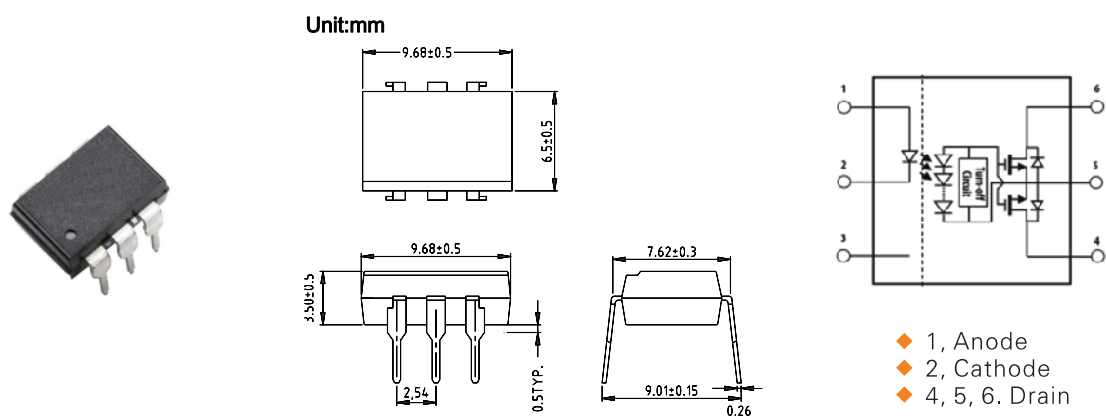
Product	Size (L*W*H mm)	Output type	Load Voltage (V)	Load Current (mA)	Ron Typ. (Ω)	Ifon max. (mA)	Viso (Vrms)
OR-606A	7.14 × 6.5 × 3.5	Normally Open 1 Form A	60	550	0.75	3	5000
OR-625A	7.14 × 6.5 × 3.5	Normally Open 1 Form A	250	180	6.5	3	5000
OR-640A	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	120	20	3	5000
OR-660A	7.14 × 6.5 × 3.5	Normally Open 1 Form A	600	50	40	3	5000
OASSR-4119	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	100	25	20	5000
OASSR-4111	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	120	16	20	5000
OAQV251	7.14 × 6.5 × 3.5	Normally Open 1 Form A	40	500	1	3	5000
OAQV252	7.14 × 6.5 × 3.5	Normally Open 1 Form A	60	400	1.2	3	5000
OAQV253	7.14 × 6.5 × 3.5	Normally Open 1 Form A	250	200	2.7	3	5000
OAQV254	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	150	6.2	3	5000
OAQV255	7.14 × 6.5 × 3.5	Normally Open 1 Form A	100	350	2.5	3	5000
OAQV257	7.14 × 6.5 × 3.5	Normally Open 1 Form A	200	250	4	3	5000
OAQV258	7.14 × 6.5 × 3.5	Normally Open 1 Form A	1500	20	345	3	5000
OAQV252G3A	7.14 × 6.5 × 3.5	Normally Open 1 Form A	60	3500	0.06	3	5000
OAQV210	7.14 × 6.5 × 3.5	Normally Open 1 Form A	350	130	23	3	5000
OAQV212	7.14 × 6.5 × 3.5	Normally Open 1 Form A	60	550	0.83	3	5000
OAQV214	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	120	30	3	5000
OAQV216	7.14 × 6.5 × 3.5	Normally Open 1 Form A	600	50	70	3	5000
OAQV217	7.14 × 6.5 × 3.5	Normally Open 1 Form A	200	180	11	3	5000
OTLP598AA	7.14 × 6.5 × 3.5	Normally Open 1 Form A	60	500	1	3	5000
OTLP4597G	7.14 × 6.5 × 3.5	Normally Open 1 Form A	350	150	15	3	5000
OTLP797GA	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	120	20	3	5000
OTLP798GA	7.14 × 6.5 × 3.5	Normally Open 1 Form A	400	150	8	3	5000
OTLP797J	7.14 × 6.5 × 3.5	Normally Open 1 Form A	600	100	25	3	5000
OG3VM-61	7.14 × 6.5 × 3.5	Normally Open 1 Form A	60	500	1	3	5000

Photo Coupler | Solid State Relay | DIP8-DC



Product	Size (L*W*H mm)	Output type	Load Voltage (V)	Load Current (mA)	Ron Typ. (Ω)	Ifon max. (mA)	Viso (Vrms)
OR-806A	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	500	0.75	5	5000
OR-825A	9.68 × 6.5 × 3.5	Normally Open 2 Form A	250	180	6.5	5	5000
OR-840A	9.68 × 6.5 × 3.5	Normally Open 2 Form A	400	120	20	5	5000
OR-860A	9.68 × 6.5 × 3.5	Normally Open 2 Form A	600	50	40	5	5000
OASSR-1228	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	500	0.75	5	5000
OASSR-1420	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	600	0.2	20	5000
OASSR-1520	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	10000	0.35	20	5000
OASSR-3220	9.68 × 6.5 × 3.5	Normally Open 2 Form A	250	200	8	20	5000
OASSR-4128	9.68 × 6.5 × 3.5	Normally Open 2 Form A	400	100	25	20	5000
OASSR-4120	9.68 × 6.5 × 3.5	Normally Open 2 Form A	400	120	16	20	5000
OTLP224G-2	9.68 × 6.5 × 3.5	Normally Open 2 Form A	350	120	22	3	5000
OTLP224GA-2	9.68 × 6.5 × 3.5	Normally Open 2 Form A	400	120	17	3	5000
OTLP3549	9.68 × 6.5 × 3.5	Normally Open 2 Form A	600	600	2	5	5000
OAQW212	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	500	0.83	3	5000
OAQW217	9.68 × 6.5 × 3.5	Normally Open 2 Form A	200	160	11	3	5000
OAQW210	9.68 × 6.5 × 3.5	Normally Open 2 Form A	350	120	23	3	5000
OAQW214	9.68 × 6.5 × 3.5	Normally Open 2 Form A	400	100	30	3	5000
OAQW216	9.68 × 6.5 × 3.5	Normally Open 2 Form A	600	40	70	3	5000
OG3VM-62C1	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	500	1	1.6	5000
OG3VM-62F1	9.68 × 6.5 × 3.5	Normally Open 2 Form A	60	500	1	1.6	5000
OG3VM-WL	9.68 × 6.5 × 3.5	Normally Open 2 Form A	350	120	22	3	5000
OG3VM-WFL	9.68 × 6.5 × 3.5	Normally Open 2 Form A	350	120	22	3	5000

Photo Coupler | Solid State Relay | LDIP6-DC



Product	Size (L*W*H mm)	Output type	Load Voltage (V)	Load Current (mA)	Ron Typ. (Ω)	Ifon max. (mA)	Viso (Vrms)
OR-5211	9.68 × 6.5 × 3.5	Normally Open 1 Form A	600	120	16	5	5000
OASSR-5211	9.68 × 6.5 × 3.5	Normally Open 2 Form A	600	120	16	20	5000

IGBT

IGBT Gate Driver series Photocoupler is ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains an AlGaAs LED optically coupled to an integrated circuit with a power output stage. The 2.5A peak output current is capable of directly driving most IGBTs with ratings up to 1200 V/100 A. For IGBTs with higher ratings, The Photocoupler operational parameters are guaranteed over the temperature range from -40°C ~ +105°C. Detailed product parameters can be found in the table below.

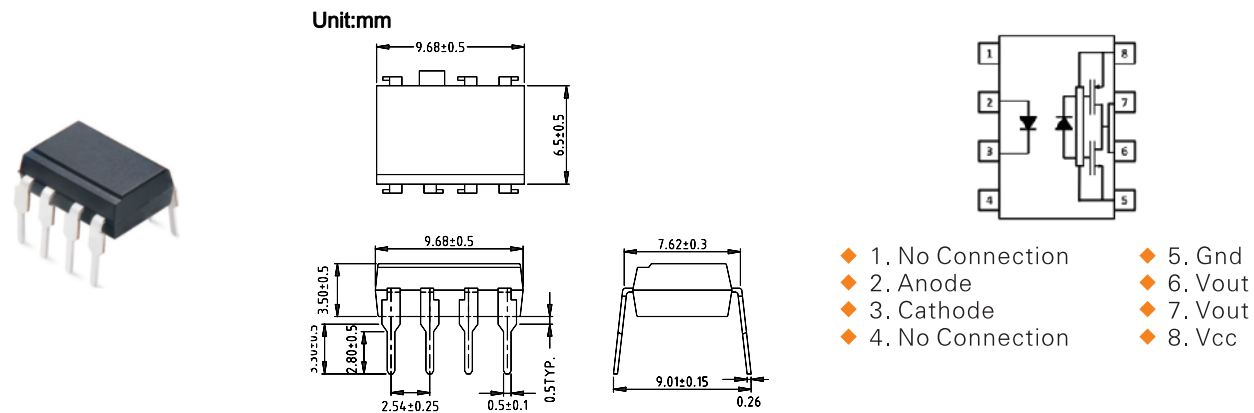
Application

- ◆ IGBT/MOSFET gate driver.
- ◆ Uninterruptible power supply (UPS)
- ◆ Industrial Inverter
- ◆ AC/Brushless Inverter
- ◆ Switching power suppliers

IGBT

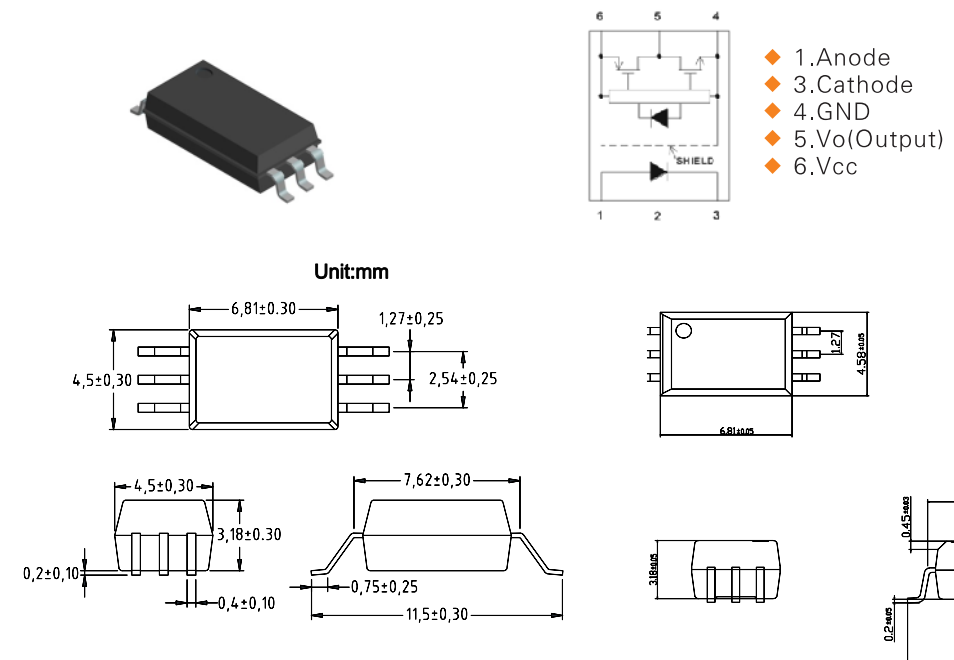
Isolator Type	IGBT Gate Drive Optocoupler								
Switch	IGBT								
Output voltage	Rail-to-rail								
Package type	SOP5	8PIN			SO6				
Output Current	1A	0.4A	1A	2.5-3A	0.6A	1A	2.5-3A	4A	
Operating voltage	10-30V	15-30V	15-30V	15-30V	15-30V	10-30V	15-30V	15-30V	15-30V
Isolation voltage	3750Vpeak	5000Vpeak	5000Vpeak	5000Vpeak	5000Vpeak	5000Vpeak	5000Vpeak	5000Vpeak	5000Vpeak
Part Number	OR155E	OTLP351A	OR3150 OHCPL3150 OFOD3150	OR3120 OHCPL3120 OFOD3120 ORT350 OTLP350	OTLP5701	OR314 OACPL314	OR340 OACPL340 OFOD8314 OTLP5751	OR341 OACPL341 OFOD8342 OTLP5702	OR343 OACPL343
Operating Temperature	-40°C~105°C	-40°C~105°C	-40°C~105°C	-40°C~105°C	-40°C~105°C	-40°C~105°C	-40°C~105°C	-40°C~105°C	-40°C~105°C

Photo Coupler | IGBT | DIP8-DC



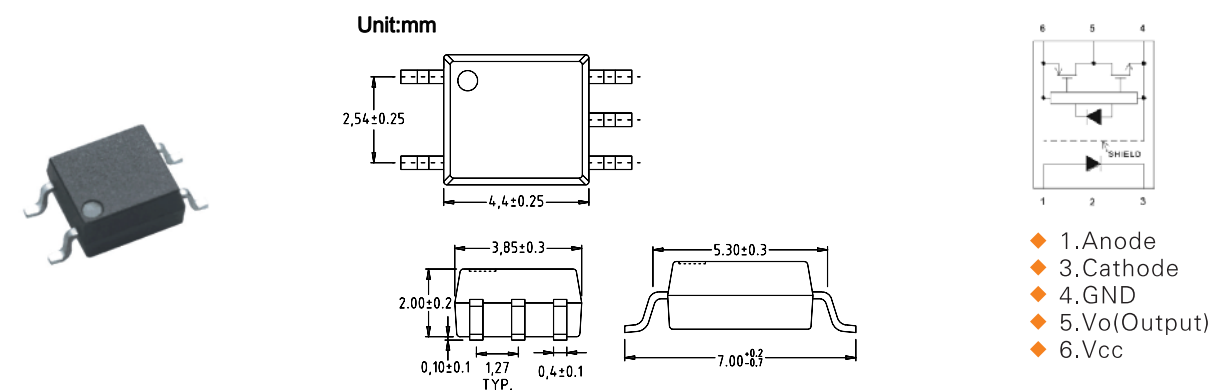
Product	Size (L*W*H mm)	tPHL/tPLH (ns)	High Level Output Current (A)	Low Level Output Current (A)	Viso (Vrms)	CMR (KV/us)	IFT (mA)
OR-3120	9.68 × 6.5 × 3.5	300max. / 300max.	2 min.	-2 min.	5000	20	5
OR-3150	9.68 × 6.5 × 3.5	200max. / 200max.	1	1	5000	35	5
OR-T350	9.68 × 6.5 × 3.5	500max. / 500max.	2 min.	-2 min.	5000	15	5
OHCPL3120	9.68 × 6.5 × 3.5	300max. / 300max.	2 min.	-2 min.	5000	20	5
OHCPL3150	9.68 × 6.5 × 3.5	200max. / 200max.	1	1	5000	35	5
OFOD3120	9.68 × 6.5 × 3.5	300max. / 300max.	2 min.	-2 min.	5000	20	5
OFOD3150	9.68 × 6.5 × 3.5	200max. / 200max.	1	1	5000	35	5
OTLP250H	9.68 × 6.5 × 3.5	500max. / 500max.	2 min.	-2 min.	5000	15	5
OTLP350	9.68 × 6.5 × 3.5	500max. / 500max.	2 min.	-2 min.	5000	15	5
OTLP351A	9.68 × 6.5 × 3.5	500max. / 500max.	0.4 min.	-0.4 min.	5000	20	5

Photo Coupler | IGBT | LSO6-DC



Product	Size (L*W*H mm)	tPHL/tPLH (ns)	High Level Output Current (A)	Low Level Output Current (A)	Viso (Vrms)	CMR (KV/us)	LCC (mA)
OR-314W	6.81 × 4.5 × 3.18	200max. / 200max.	0.6	0.4	3750	20	3
OR-340W	6.81 × 4.5 × 3.18	200max. / 200max.	1	0.8	3750	20	3
OR-341W	6.81 × 4.5 × 3.18	200max. / 200max.	3	2.5	3750	20	3

Photo Coupler | IGBT | SOP5-DC



Product	Size (L*W*H mm)	tPHL/tPLH (ns)	High Level Output Current (A)	Low Level Output Current (A)	Viso (Vrms)	CMR (KV/us)	IFT (mA)
OR-155E	9.68 × 6.5 × 3.5	200max. / 200max.	1	1	3750	20	5

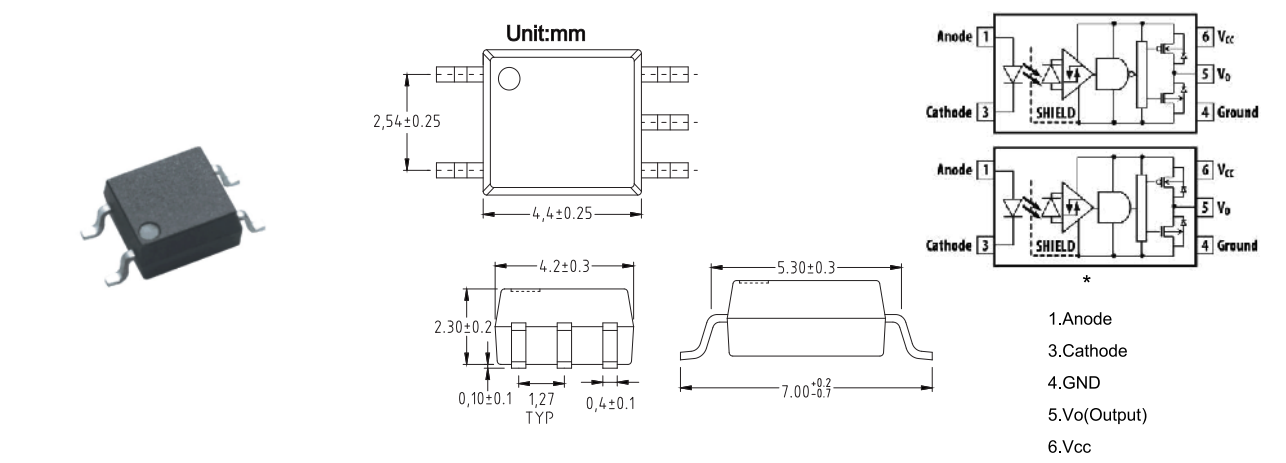
Intelligent Power Module

IGBT Gate Driver series Photocoupler is ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains an AlGaAs LED optically coupled to an integrated circuit with a power output stage. The 2.5A peak output current is capable of directly driving most IGBTs with ratings up to 1200 V/100 A. For IGBTs with higher ratings, The Photocoupler operational parameters are guaranteed over the temperature range from $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$. Detailed product parameters can be found in the table below.

Application

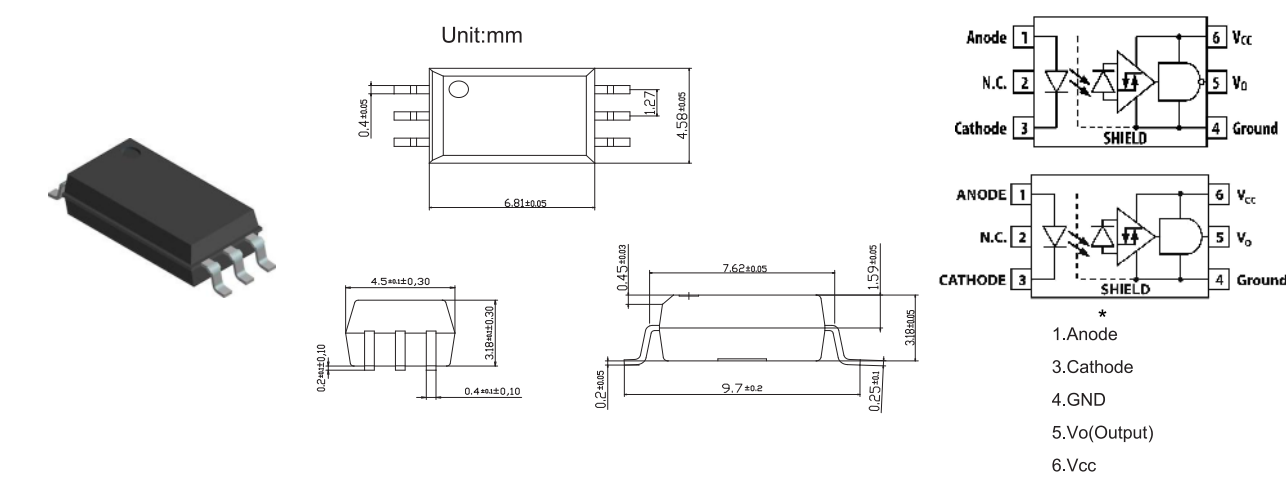
- ◆ IPM Interface Isolation
- ◆ Isolated IGBT/MOSFET Gate Drive
- ◆ AC and Brushless DC Motor Drives
- ◆ Industrial Inverters
- ◆ General Digital Isolation

Photo Coupler | Intelligent Power Module | SOP5-DC



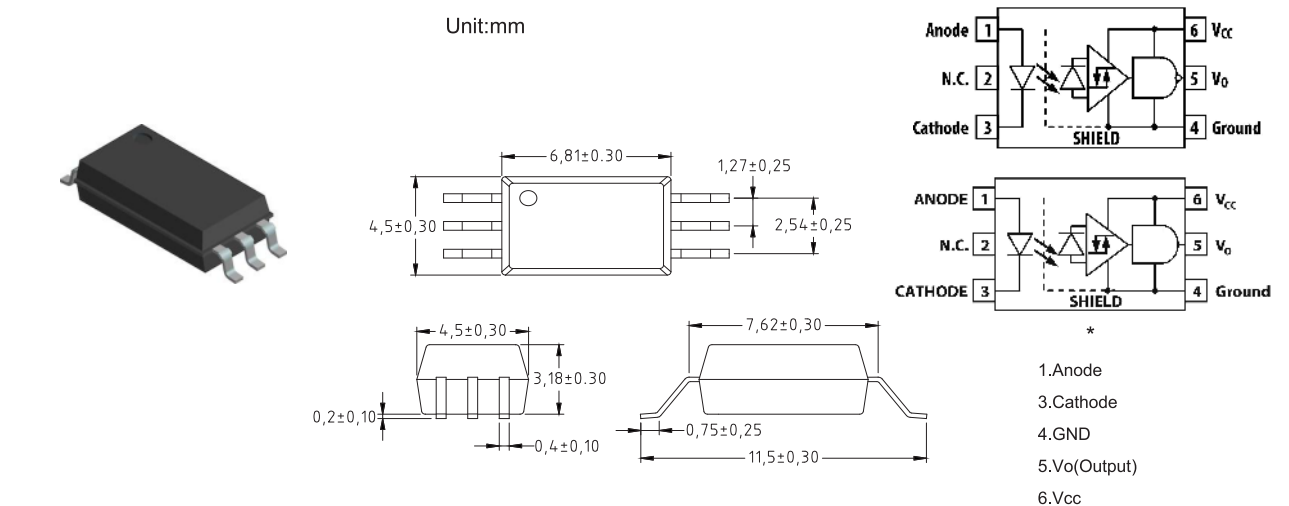
Product	Size (L*W*H mm)	tPHL/tPLH(ns)	IOSL(mA)	IOSH (mA)	Viso (Vrms)	CMR (KV/us)	IFLH (mA)
OACPL-483M	4.4 × 4.2 × 2.3	120max. / 120max.	125min.	-125max.	3750	30	2.2
*OACPL-484M	4.4 × 4.2 × 2.3	150max. / 120max.	125min.	-125max.	3750	30	2.2

Photo Coupler | Intelligent Power Module | SO6-DC



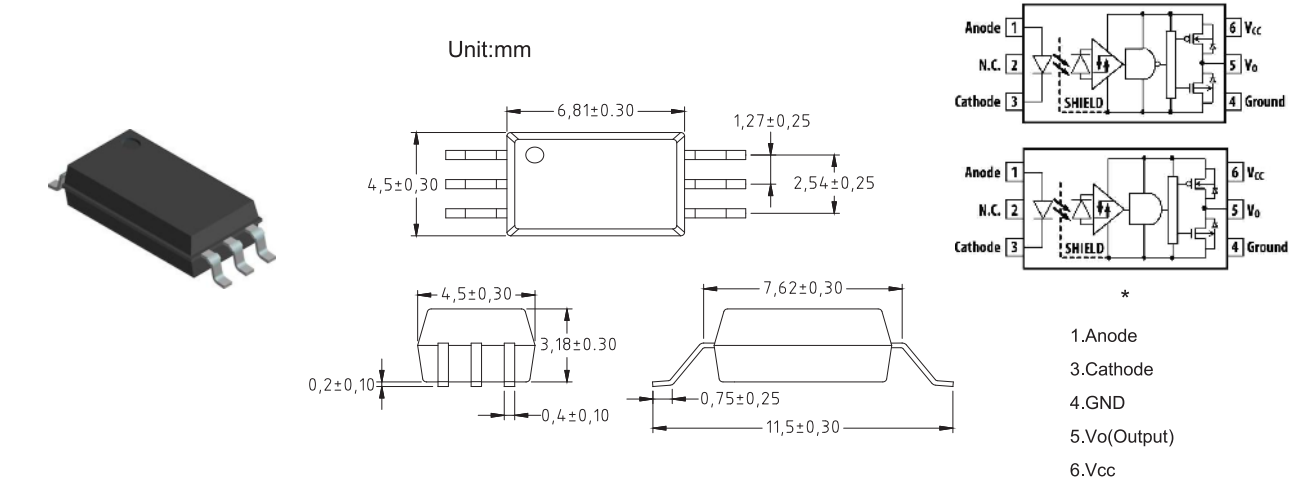
Product	Size (L*W*H mm)	tPHL/tPLH(ns)	IOSL(mA)	IOSH (mA)	Viso (Vrms)	CMR (KV/us)	IF (mA)
OACPL-480P	6.81 × 4.5 × 3.18	350max. / 350max.	25min.	-25max.	5000	20	10(on)
*OACPL-481P	6.81 × 4.5 × 3.18	350max. / 350max.	25min.	-25max.	5000	20	10(off)

Photo Coupler | Intelligent Power Module | SO6-DC



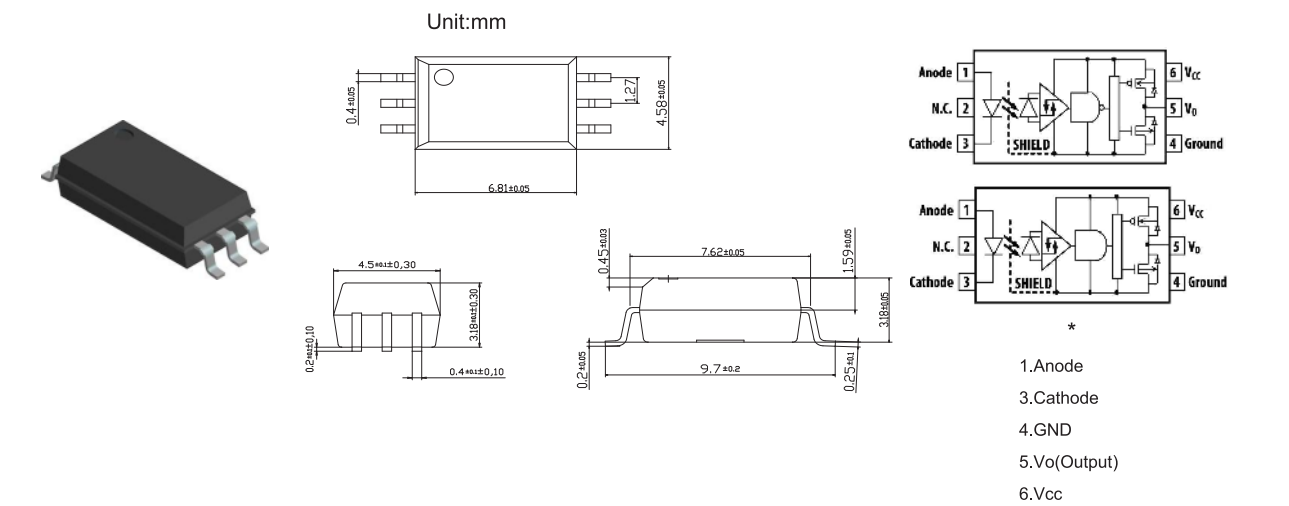
Product	Size (L*W*H mm)	tPHL/tPLH(ns)	IOSL(mA)	IOSH (mA)	Viso (Vrms)	CMR (KV/us)	IF (mA)
OACPL-480W	6.81 × 4.5 × 3.18	350max. / 350max.	25min.	-25max.	5000	20	10(on)
*OACPL-481W	6.81 × 4.5 × 3.18	350max. / 350max.	25min.	-25max.	5000	20	10(off)

Photo Coupler | Intelligent Power Module | SO6-DC



Product	Size (L*W*H mm)	tPHL/tPLH(ns)	IOSL(mA)	IOSH (mA)	Viso (Vrms)	CMR (KV/us)	IFLH (mA)
OACPL-483W	6.81 × 4.5 × 3.18	120max. / 120max.	125min.	-125max.	3750	30	2.2
*OACPL-484W	6.81 × 4.5 × 3.18	150max. / 120max.	125min.	-125max.	3750	30	2.2

Photo Coupler | Intelligent Power Module | SO6-DC



Product	Size (L*W*H mm)	tPHL/tPLH(ns)	IOSL(mA)	IOSH (mA)	Viso (Vrms)	CMR (KV/us)	IFLH (mA)
OACPL-483P	6.81 × 4.5 × 3.18	120max. / 120max.	125min.	-125max.	3750	30	2.2
*OACPL-484P	6.81 × 4.5 × 3.18	150max. / 120max.	125min.	-125max.	3750	30	2.2

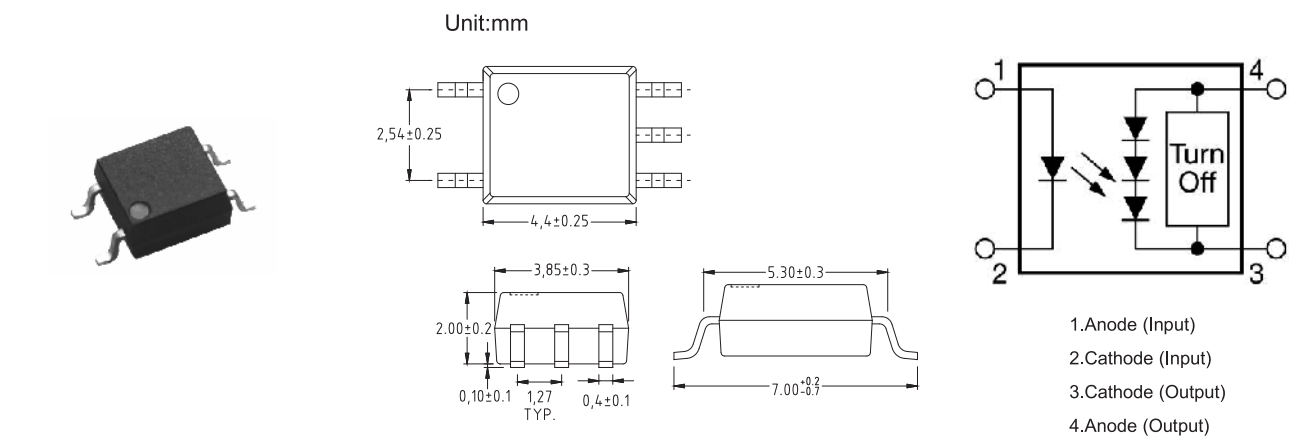
Photovoltaic

The Photovoltaic is a stand-alone optically isolated MOSFET driver. Unlike conventional MOSFET drivers, which require an external power supply to provide VCC and or VDD rails to the driver itself, the Photovoltaic obtains all the required current to drive its internal circuitry from the LED current on the low voltage primary side of the isolation barrier. This saves the designer the space and cost associated with providing one or more external power supplies. The Photovoltaic also integrates a turn-off circuit internal to the component itself, thus doing away with the need for additional components in order to increase the overall switching speed by decreasing the turn-off time. These features, combined with a SOP4/LSO6/DIP6 package, provide designers with a small footprint, highly integrated isolated gate driver solution for a large variety of MOSFET driver applications

High-side driver

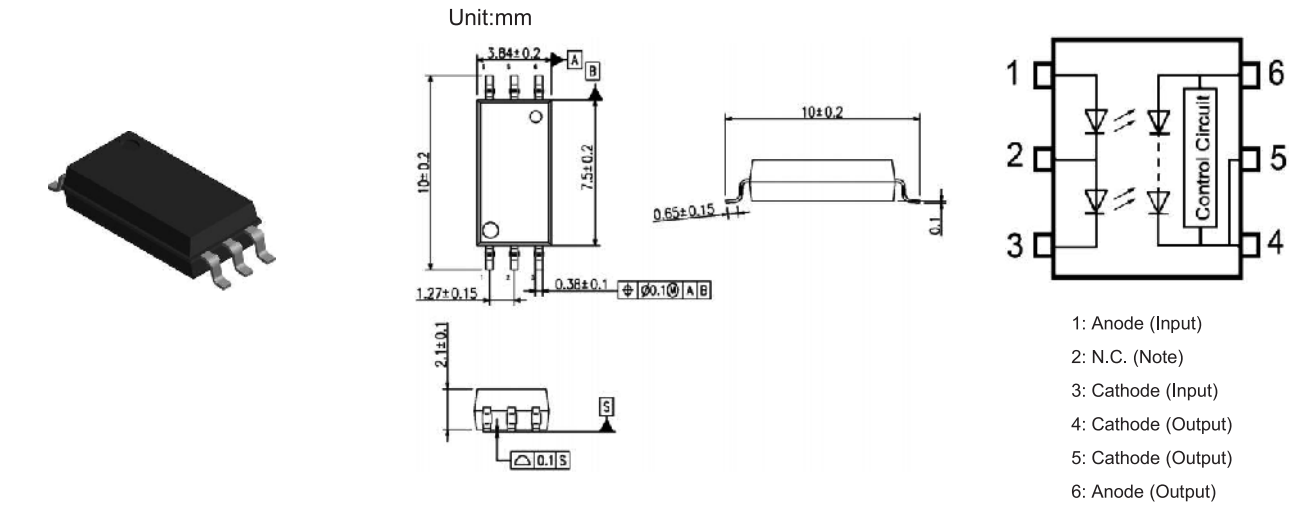
- ◆ Solid-state relays
- ◆ Floating power supply
- ◆ Power control
- ◆ Data acquisition
- ◆ Isolated solenoid drivers
- ◆ Isolated high current relay drivers
- ◆ Isolated high voltage relay drivers

Photo Coupler | Photovoltaic | SOP4-DC



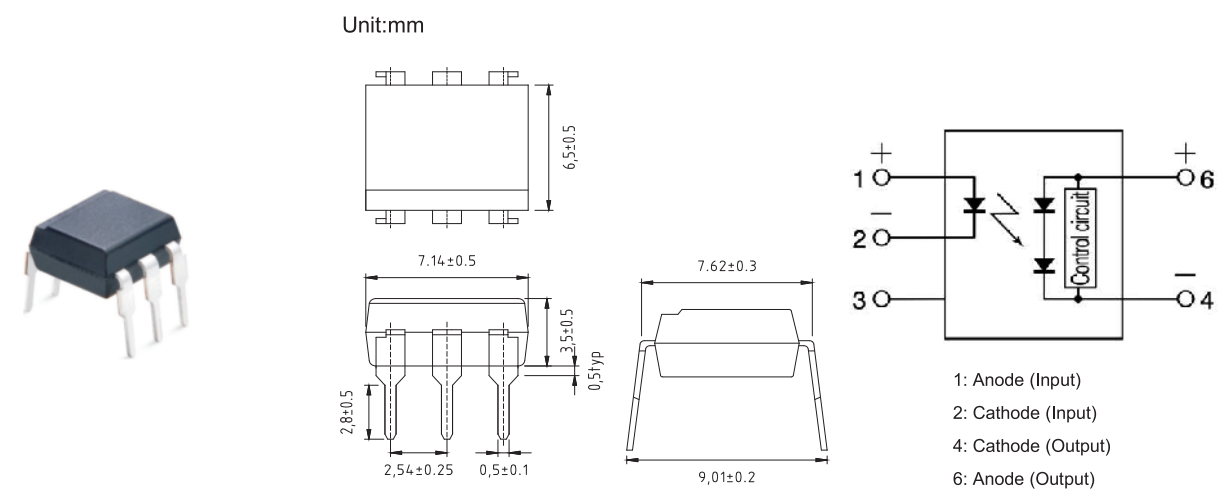
Product	Size (L*W*H mm)	IFon Typ(mA)	IFoff Typ(mA)	VOC(V)	ISC(uA)	Ton(ms)	Toff(ms)	Viso (Vrms)
OR357PVG	4.4 × 3.85 × 2.0	0.8	0.6	7	7	0.05	0.02	3750
OVOM1271	4.4 × 3.85 × 2.0	0.8	0.6	8.4	15	0.05	0.02	3750
OAPV1121S	4.4 × 3.85 × 2.0	0.6	0.5	8.7	14	0.4	0.1	3750
OAPV2121S	4.4 × 3.85 × 2.0	0.85	0.75	8.2	8	0.8	0.1	3750

Photo Coupler | Photovoltaic | SO6-DC



Product	Size (L*W*H mm)	IFon Typ(mA)	IFoff Typ(mA)	VOC(V)	ISC (uA)	Ton (ms)	Toff (ms)	Viso (Vrms)
OTLP3910	6.81 × 4.5 × 3.18	0.5	0.6	18	34	0.3	0.1	5000

Photo Coupler | Photovoltaic | SO6-DC



Product	Size (L*W*H mm)	IFon Typ(mA)	IFoff Typ(mA)	VOC(V)	ISC (uA)	Ton (ms)	Toff (ms)	Viso (Vrms)
OAPV1122	7.14 × 6.5 × 3.5	0.6	0.5	8.7	14	0.4	0.1	5000



Optical Package

Optical Package

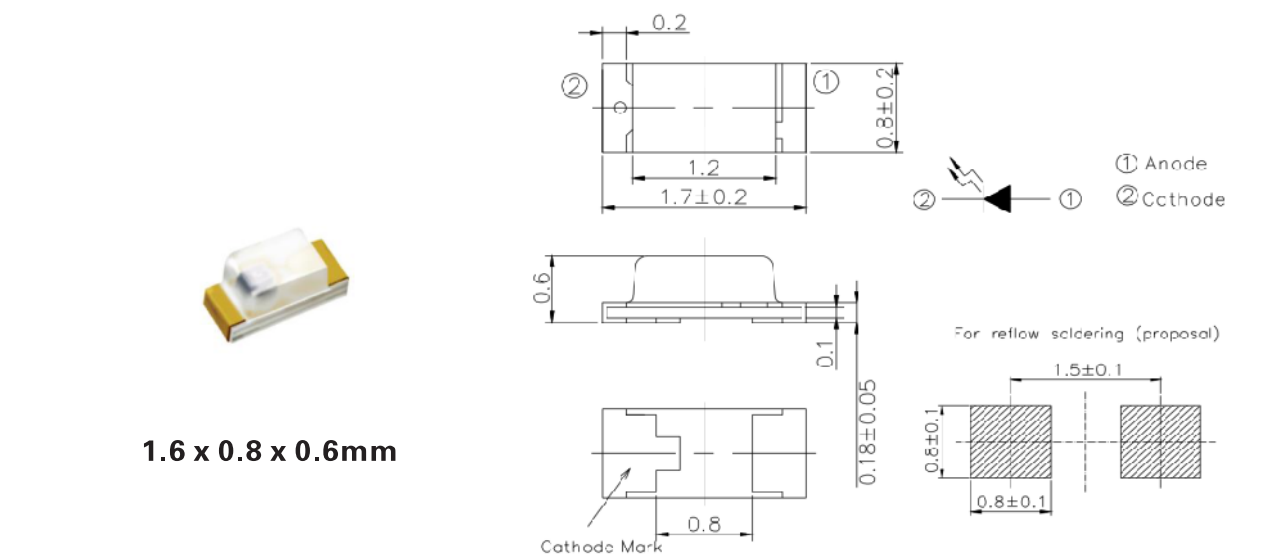
Infrared SMD LED	82
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Photoelectric switch	94
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Product Selection Trees

Infrared SMD LED

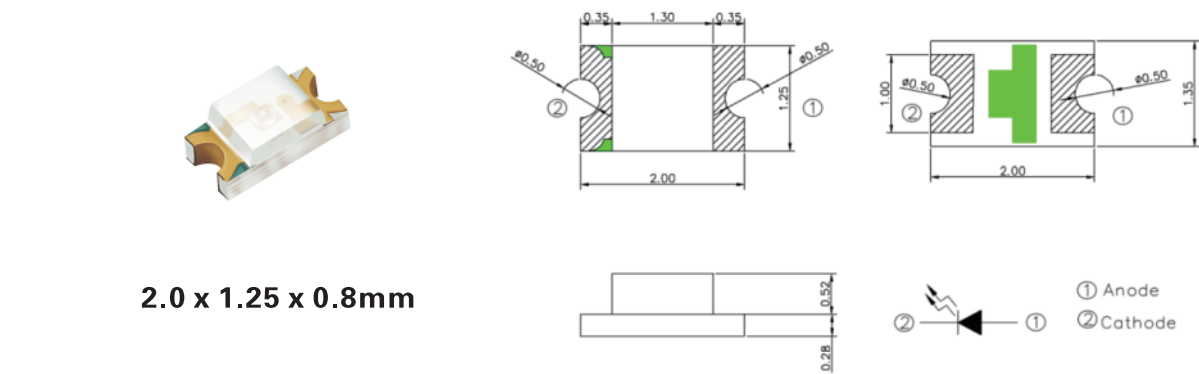
LED Type	Infrared SMD LED									
Category	0603		0805		1206		1206		1210	
Height	0.6mm		0.8mm		1.1mm		1.9mm		1.1mm	
Chip Type	940nmIR 850nmIR		PT		940nmIR 850nmIR		PT		940nmIR 850nmIR	
Part Number	QR-IR0603LF-CA-4T QR-HIR0603LF-CA-4T		QR-PT0603LF-B1-4T		QR-IR0805ZB-CA-3T QR-HIR0805ZB-CA-3T		QR-PT0805ZB-B1-3T		QR-IR1206ZB-CA-3T QR-HIR1206ZB-CA-3T	
Angel	140deg		/		120deg		/		160deg 150deg	
Radiant power/ Bright current	0.7mw/sr 0.8mw/sr		0.6mA		0.8mw/sr 2.0mw/sr		0.65mA		0.8mw/sr 1.5mw/sr	
Forward voltage/ Dark current	1.2V 1.45V		<100nA		1.2V 1.45V		<100nA		1.2V 1.45V	

Chip PCB Type Infrared_Top View



1.6 x 0.8 x 0.6mm

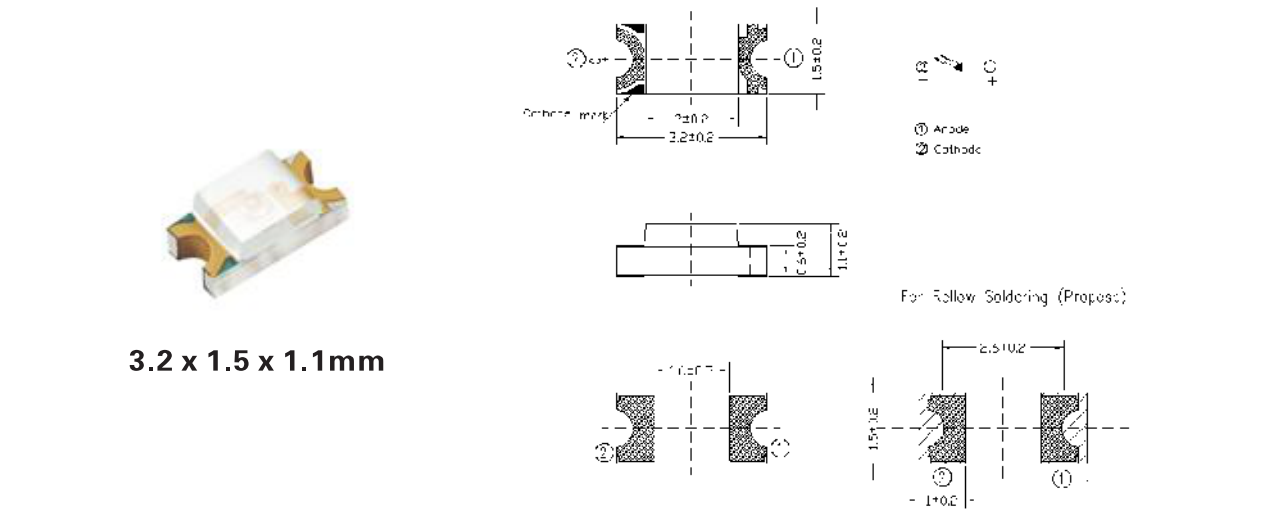
Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ie_Min (mw/sr)	Ie_Typ (mw/sr)	View Angle(°)
OR-IR0603LF-CA-4T	1.6x0.8x0.6	940	1.2	1.5	0.2	0.7	140
OR-HIR0603LF-CA-4T	1.6x0.8x0.6	850	1.45	1.65	0.2	0.8	140



2.0 x 1.25 x 0.8mm

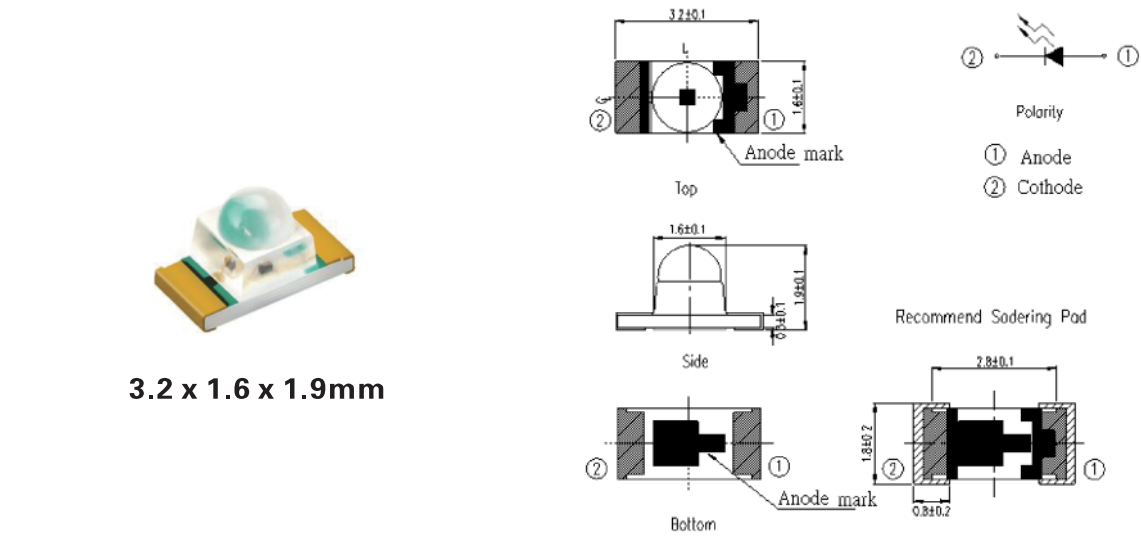
Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ie_Min (mw/sr)	Ie_Typ (mw/sr)	View Angle(°)
OR-IR0805Z8-CA-3T	2.0x1.25x0.8	940	1.2	1.5	0.2	0.8	120
OR-HIR0805Z8-CA-3T	2.0x1.25x0.8	850	1.45	1.65	0.5	2.0	120

Chip PCB Type Infrared_Top View



3.2 x 1.5 x 1.1mm

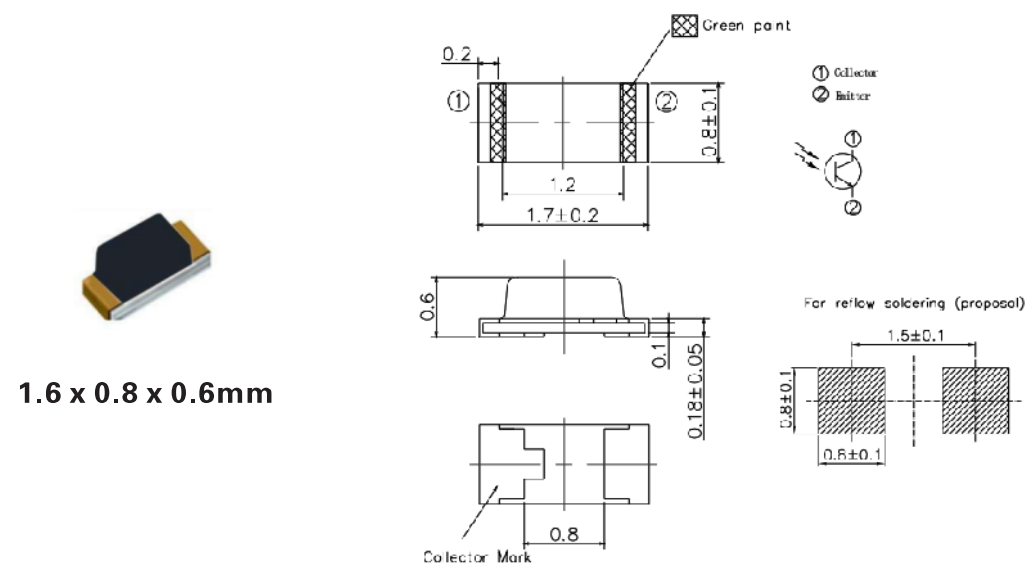
Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ie_Min (mw/sr)	Ie_Typ (mw/sr)	View Angle(°)
OR-IR1206ZA-CA-3T	3.2x1.5x1.1	940	1.2	1.5	0.2	0.8	160
OR-HIR1206ZA-CA-3T	3.2x1.5x1.1	850	1.45	1.65	0.5	1.5	150



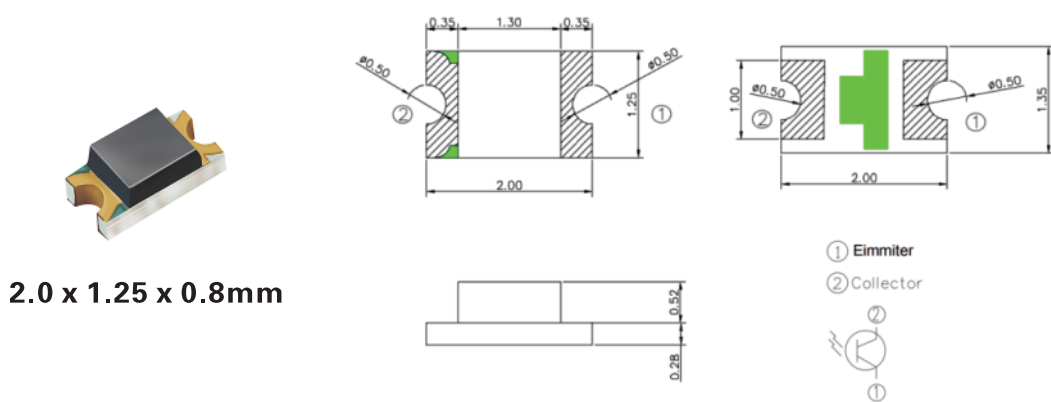
3.2 x 1.6 x 1.9mm

Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ie_Min (mw/sr)	Ie_Typ (mw/sr)	View Angle(°)
OR-IR1206LI-CA-CT	3.2x1.6x1.9	940	1.2	1.5	1.0	3.0	20
OR-IR1206LI-CA-CTR	3.2x1.6x1.9	940	1.2	1.5	11	18	20
OR-HIR1206LI-CA-CT	3.2x1.6x1.9	850	1.4	1.7	10	17	20

Chip PCB Type Photosensitive Triode_Top View

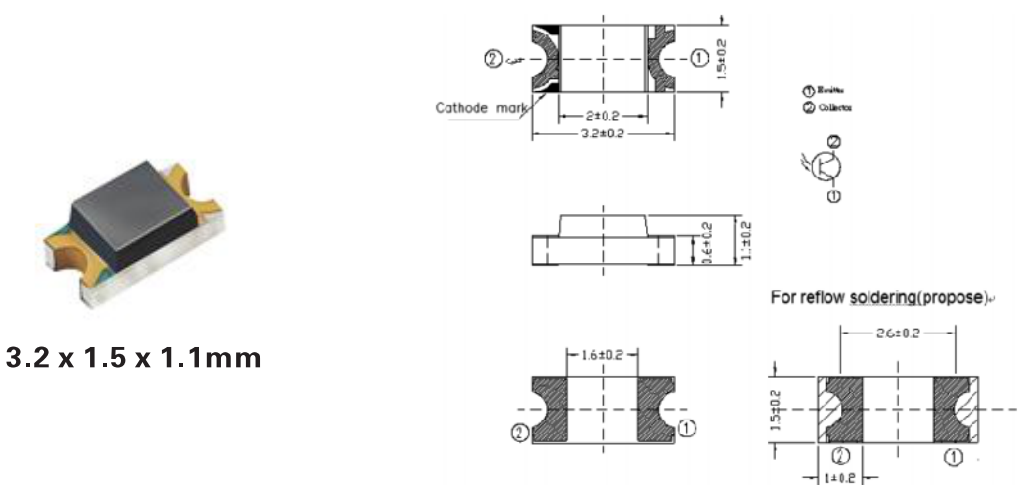


Part No.	Size (LxWxHmm)	λ_p (nm)	Rise/Fall Time (μ S)	Vce (sat) Max (V)	Ic (on) Min (mA)	Ic (on) Typ (mA)	Ic (on) Max (mA)
OR-PT0603LF-B1-4T	1.6x0.8x0.6	940	15/15	0.4	0.3	0.6	--

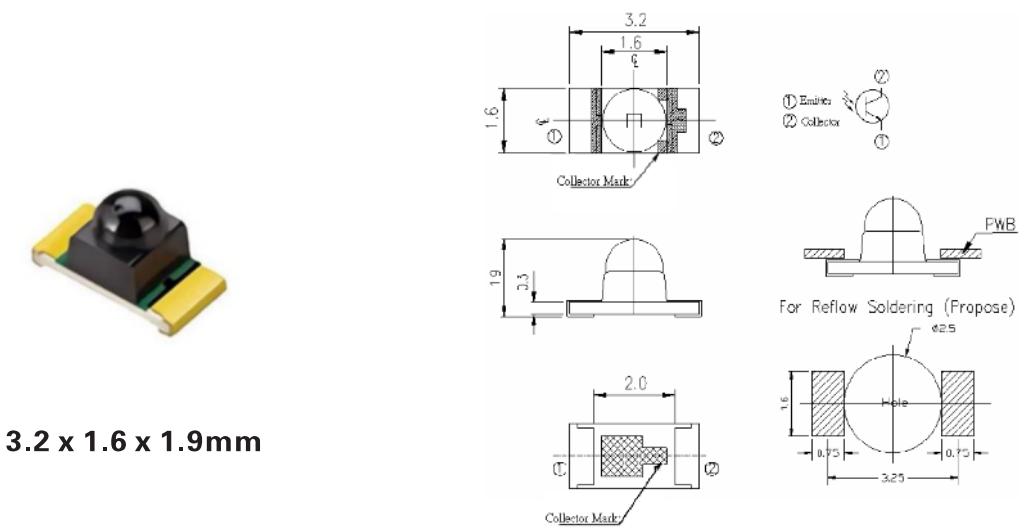


Part No.	Size (LxWxHmm)	λ_p (nm)	Rise/Fall Time (μ S)	Vce (sat) Max (V)	Ic (on) Min (mA)	Ic (on) Typ (mA)	Ic (on) Max (mA)
OR-PT0805Z8-B1-3T	2.0x1.25x0.8	940	15/15	0.4	0.1	0.65	--

Chip PCB Type Photosensitive Triode_Top View

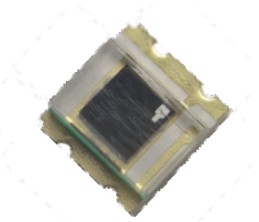


Part No.	Size (LxWxHmm)	λ_p (nm)	Rise/Fall Time (μ S)	Vce (sat) Max (V)	Ic (on) Min (mA)	Ic (on) Typ (mA)	Ic (on) Max (mA)
OR-PT1206ZA-B1-3T	3.2x1.5x1.1	940	15/15	0.4	0.1	0.3	--

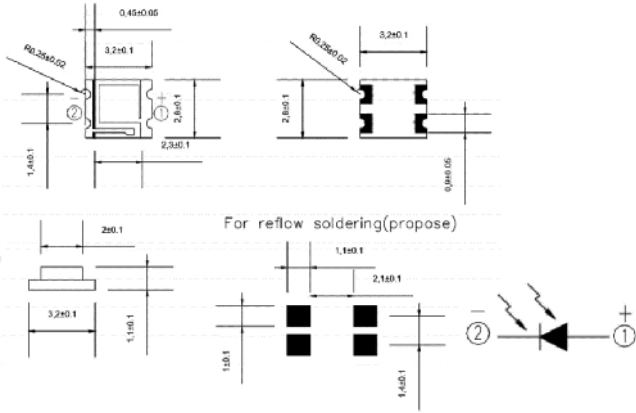


Part No.	Size (LxWxHmm)	λ_p (nm)	Rise/Fall Time (μ S)	Vce (sat) Max (V)	Ic (on) Min (mA)	Ic (on) Typ (mA)	Ic (on) Max (mA)
OR-PT1206LI-C1-CT	3.2x1.6x1.9	940	15/15	0.4	0.3	2.6	--
OR-PT1206LI-B1-CT	3.2x1.6x1.9	940	15/15	0.4	--	2.6	--

SMD Transmitting&Receiving



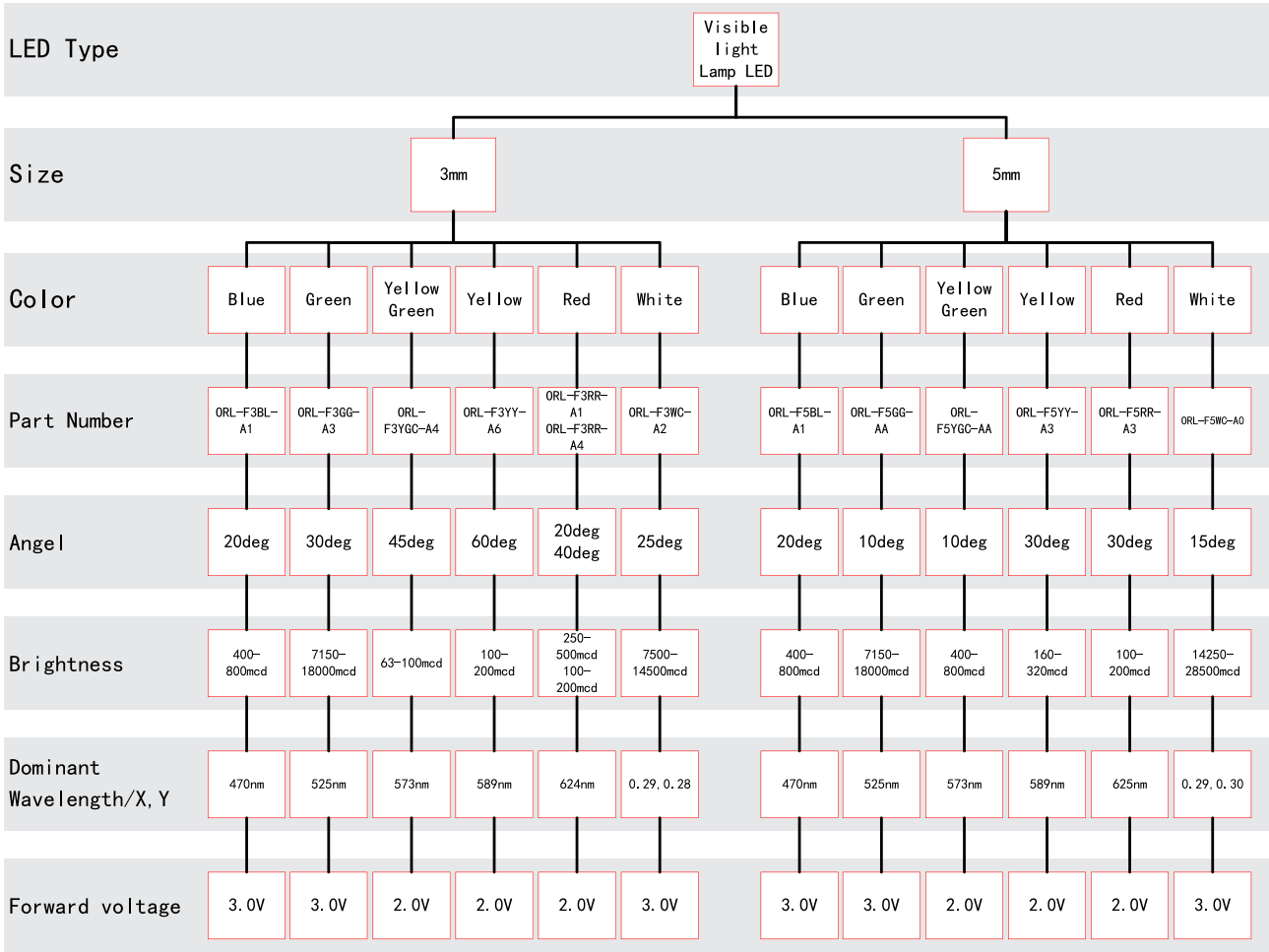
3.2*2.8*1.1mm



Part No.	Size (LxWxHmm)	λ_p (nm)	IL Min (μA)	IL Typ (μA)	BVR_Min (V)	ID_Max (nA)
OR-PD1210XXXXXX	3.2x2.8x1.1	940	4.2	--	32	10

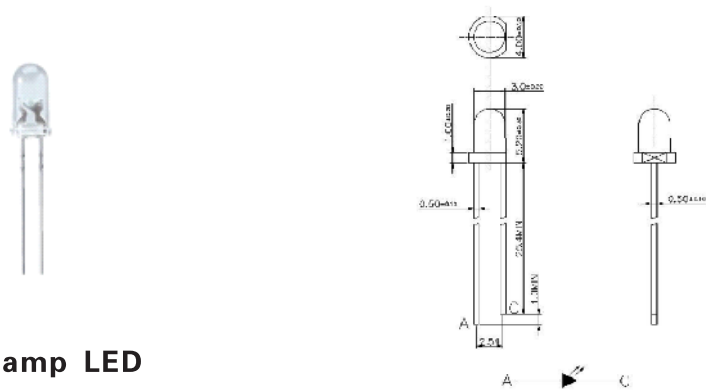
Product Selection Trees

Visble light Lamp LED



Optical Package

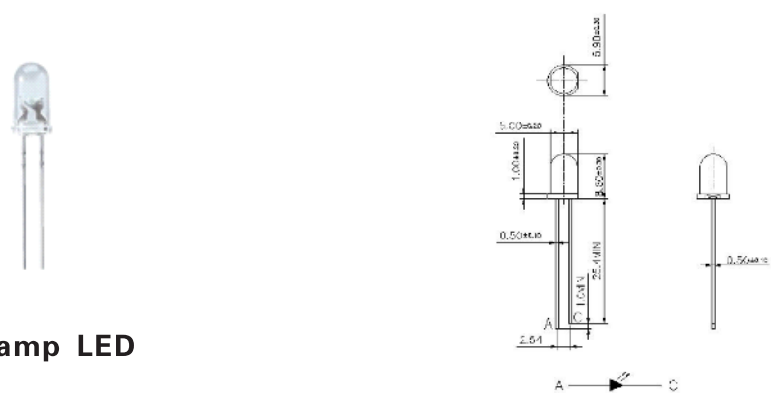
Φ3 Type Monochromatic light Lamp



Φ3 Lamp LED

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I _v (mcd)	View Angle 2 θ 1/2	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
ORL-F3BL-A1	Blue	470	400-800	20	3.0	20
ORL-F3GG-A3	Green	526	7150-18000	30	3.0	20
ORL-F3YGC-A4	Yellow Green	573	63-100	45	2.0	20
ORL-F3YY-A6	Yellow	589	100-200	60	2.0	20
ORL-F3RR-A1	Red	624	250-500	20	2.0	20
ORL-F3RR-A4	Red	624	100-200	40	2.0	20
ORL-F3WC-A2	White	(0.31,0.32)	7500-14500	25	3.0	20

Φ5 Type Monochromatic light Lamp

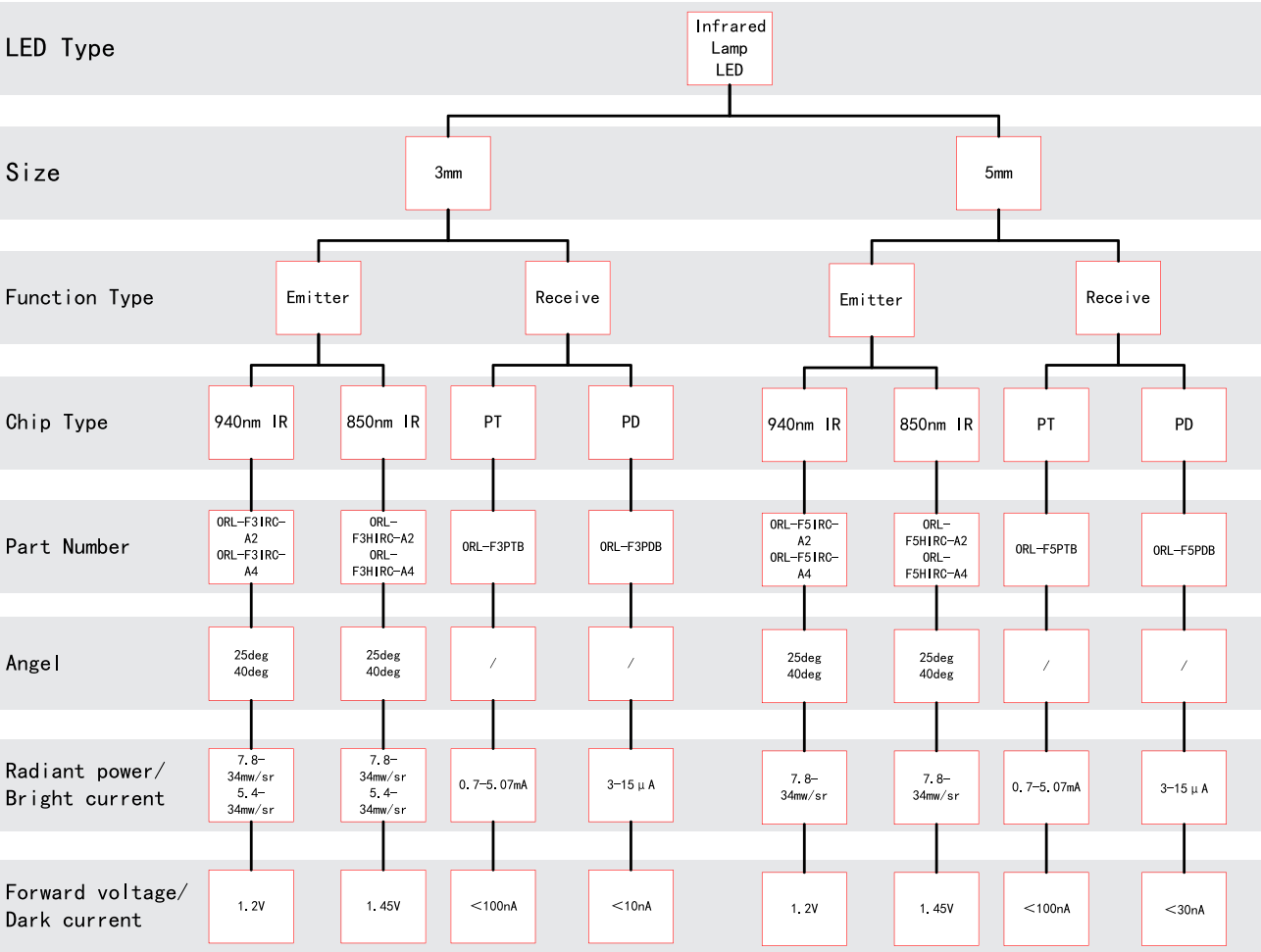


Φ5 Lamp LED

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I _v (mcd)	View Angle 2 θ 1/2	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
ORL-F5BL-A1	Blue	470	400-800	20	3.0	20
ORL-F5GG-AA	Green	525	7150-18000	10	3.0	20
ORL-F5YGC-AA	Yellow Green	573	400-800	10	2.0	20
ORL-F5YY-A3	Yellow	589	160-320	30	2.0	20
ORL-F5RR-A3	Red	625	100-200	30	2.0	20
ORL-F5WC-A0	White	(0.29,0.30)	14250-28500	15	3.0	20

Product Selection Trees

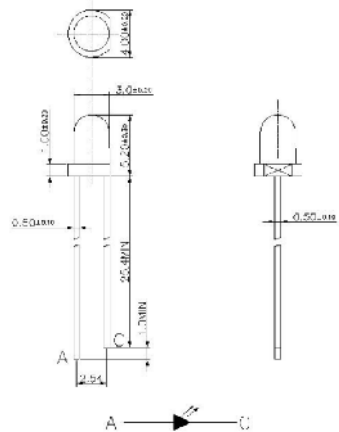
Infrared Lamp LED



Φ3 Type Infrared Lamp



Φ3 IR Lamp LED

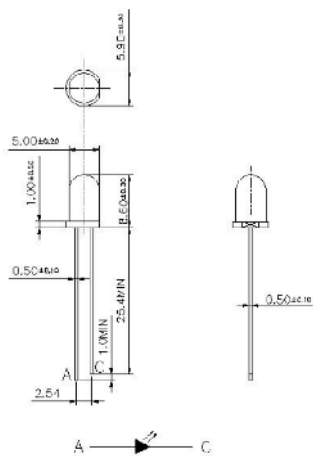


Part No.	Size (mm)	λ_p (nm)	Typ. Radiation Power I_e (mw/sr)	View Angle 2θ 1/2	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
ORL-F3IRC-A2	3	940	7.8-34	25	1.2	20
ORL-F3IRC-A4	3	940	5.6-34	40	1.2	20
ORL-F3HIRC-A2	3	850	7.8-34	25	1.45	20
ORL-F3HIRC-A4	3	850	7.8-34	40	1.45	20

Φ5 Type Infrared Lamp



Φ5 IR Lamp LED

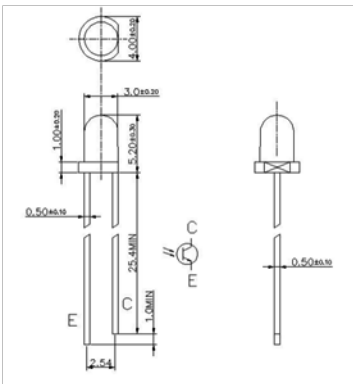


Part No.	Size (mm)	λ_p (nm)	Typ. Radiation Power I_e (mw/sr)	View Angle 2θ 1/2	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
ORL-F5IRC-A2	5	940	7.8-34	25	1.2	20
ORL-F5IRC-A4	5	940	7.8-34	40	1.2	20
ORL-F5HIRC-A2	5	850	7.8-34	25	1.45	20
ORL-F5HIRC-A4	5	850	7.8-34	40	1.45	20

Φ3 Type Photosensitive Triode Lamp



Φ3 PT Lamp LED

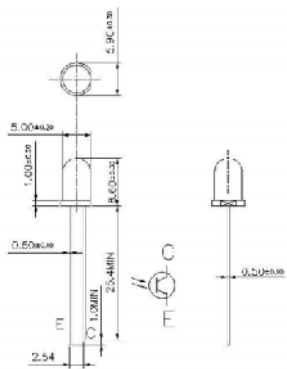


Part No.	Size (mm)	On State Collector Current I_c (on) (Ee=1mW/cm2 Ap=940nm Vce=5V)/mA	Dark Current I_{CEO} (Ee=0m W/cm2 Vce=20V)/nA	Collector Emitter Breakdown Voltage BV_{CEO} (Ee=0m W/cm2 Ic=100uA)/V	Emitter - Collector Breakdown Voltage BV_{ECO} (Ee=0m W/cm2 Ic=100uA)/V
ORL-F3PTB	3	0.7-5.07	100	> 30	> 5

Φ5 Type Photosensitive Triode Lamp



Φ5 PT Lamp LED

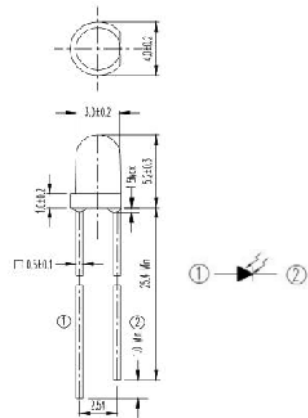


Part No.	Size (mm)	On State Collector Current I_c (on) (Ee=1mW/cm2 Ap=940nm Vce=5V)/mA	Dark Current I_{CEO} (Ee=0m W/cm2 Vce=20V)/nA	Collector Emitter Breakdown Voltage BV_{CEO} (Ee=0m W/cm2 Ic=100uA)/V	Emitter - Collector Breakdown Voltage BV_{ECO} (Ee=0m W/cm2 Ic=100uA)/V
ORL-F5PTB	5	0.7-5.07	100	> 30	> 5

Φ3 Type Photo Diode Lamp



Φ3 PD Lamp LED

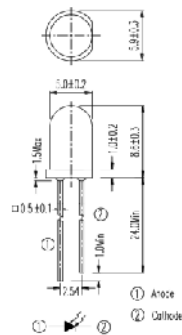


Part No.	Size (mm)	Rang of Spectral Bandwidth /nm	Reverse Light Current IL (Ee=1m W/cm2 λ p=940nm VR=5V) / μ A	Dark Current Id (Ee=0m W/cm2 VR=10V)/nA	Total Capacitance Ct(Ee=0m W/cm2 VR=3V f=1MHZ)/pF
ORL-F3PDB	3	840-1100	3-15	≤ 10	25

Φ5 Type Photo Diode Lamp



Φ5 PD Lamp LED



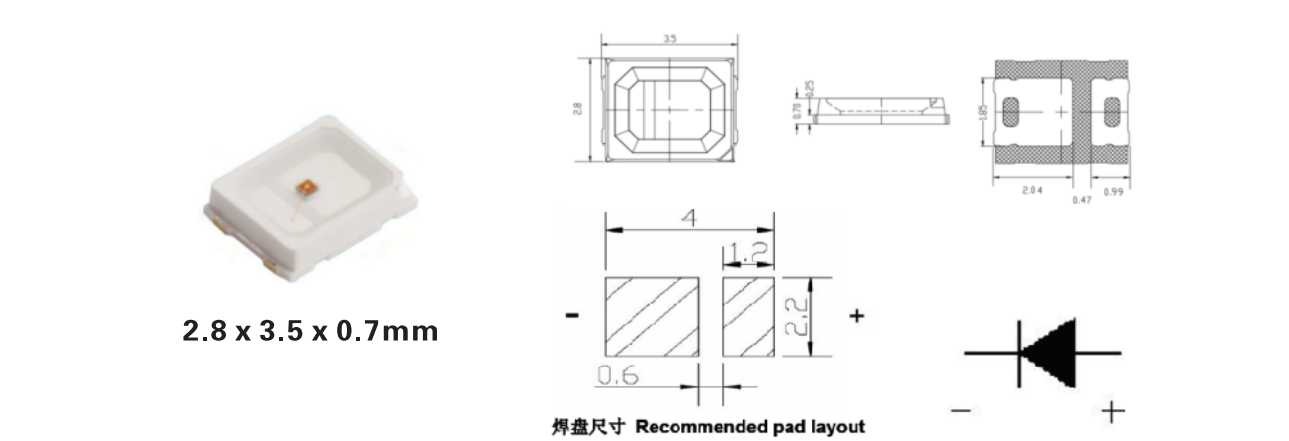
Part No.	Size (mm)	Rang of Spectral Bandwidth /nm	Reverse Light Current IL (Ee=1m W/cm2 λ p=940nm VR=5V) / μ A	Dark Current Id (Ee=0m W/cm2 VR=10V)/nA	Total Capacitance Ct(Ee=0m W/cm2 VR=3V f=1MHZ)/pF
ORL-F5PDB	5	840-1100	10.2-30	≤ 30	25

Product Selection Trees

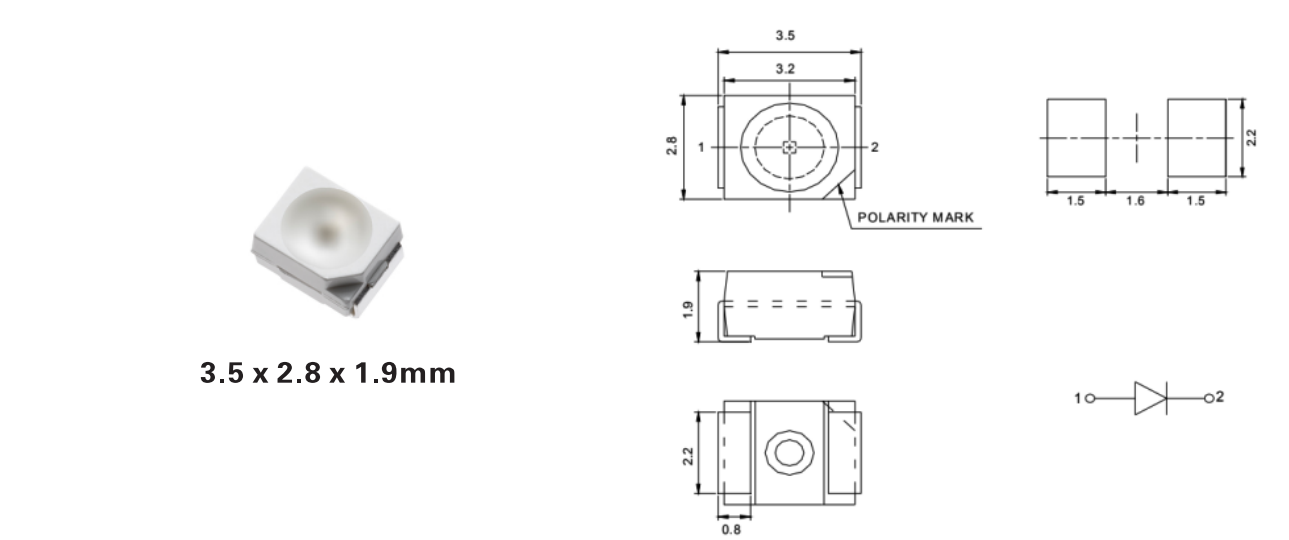
Infrared PLCC LED
Photoelectric switch

LED Type	InfraredPLCC LED				Photoelectric switch					
Category	2835		3528		908		928		8307	29044
Chip Type	940nmIR 850nmIR	PT	940nmIR 850nmIR	PT	940nmIR	PT	940nmIR	PT	940nmIR PT	850IR IC
Part Number	OR-PL28351RC OR-PL2835H1RC	OR-PL2835PTC OR-PL2835PTB	OR-PL35281RC OR-PL3528H1RC	OR-PL3528PTC OR-PL3528PTB	ORL-IR908-7C (-F)	ORL-PT908-7C (-F) ORL-PT908-7B (-F)	ORL-IR928-6C (-F)	ORL-PT928-6C (-F) ORL-PT928-6B (-F)	ORTR-8307	ORAP-29044
Angel	120deg	/	120deg	/	40deg	/	20deg	/	/	/
Radiant power/ Bright current	1.5mw/sr 2.0mw/sr	9.0mA 7.5mA	1.5mw/sr 2.0mw/sr	9.0mA 7.5mA	>143 μA	0.8-5mA	>306 μA	0.53- 3.41mA	0.3mA	/
Forwardvoltage/ Dark current	1.2V 1.45V	<100nA <10nA	1.2V 1.45V	<100nA <10nA	1.2V	<100nA	1.2V	<100nA	1.2V <100nA	1.45V

PLCC Type Infrared_Top View

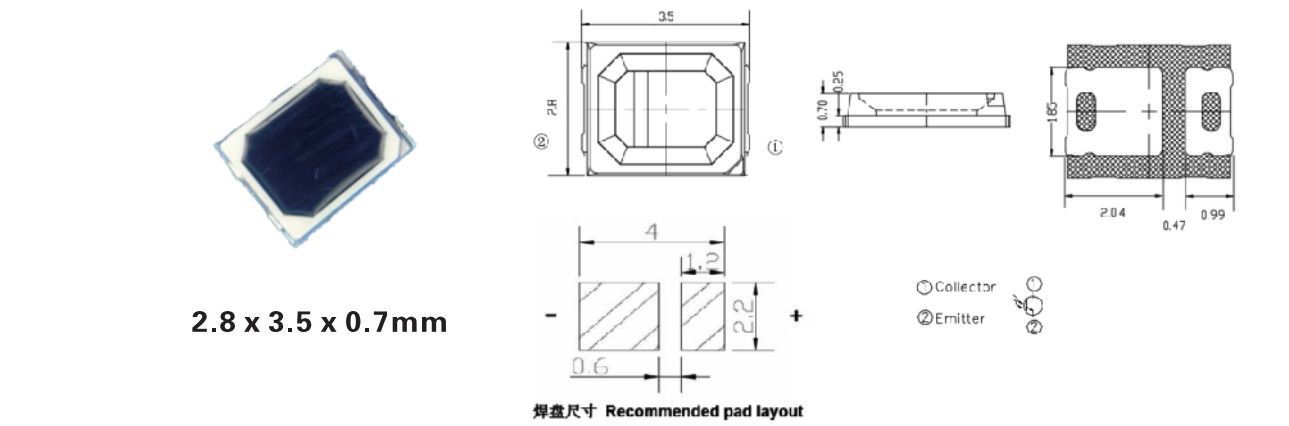


Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ie_Min (mw/sr)	Ie_Typ (mw/sr)	View Angle(°)
OR-PL2835IRC	2.8x3.5x0.7	940	1.2	1.5	1.0	1.5	120
OR-PL2835HIRC	2.8x3.5x0.7	850	1.45	1.65	1.0	2.0	120

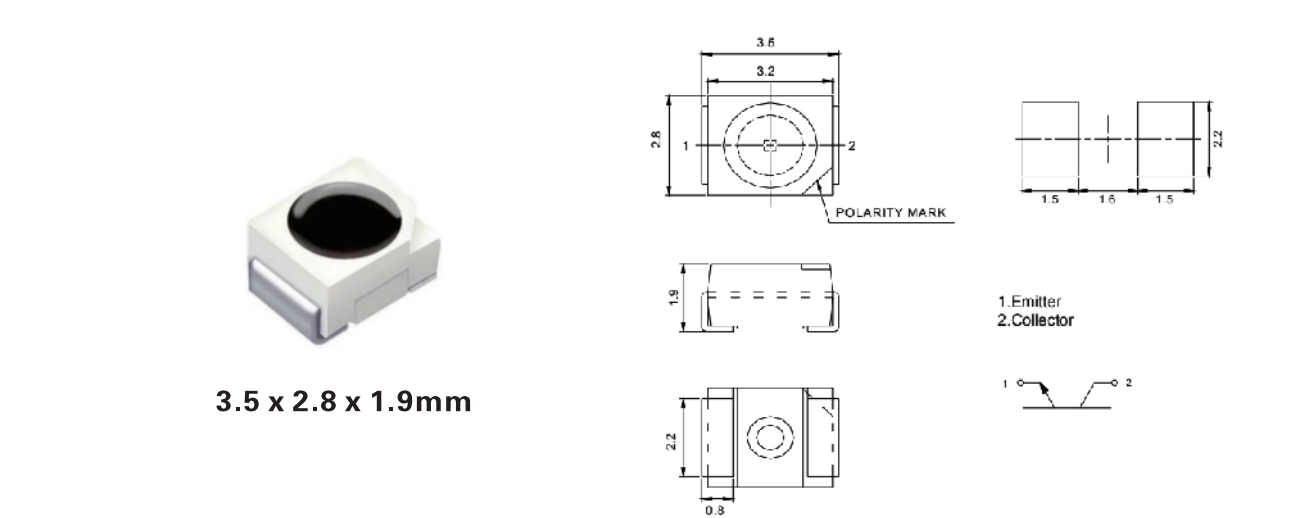


Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ie_Min (mw/sr)	Ie_Typ (mw/sr)	View Angle(°)
OR-PL3528IRC	3.5x2.8x1.9	940	1.2	1.5	1.0	1.5	120
OR-PL3528HIRC	3.5x2.8x1.9	850	1.45	1.65	1.0	2.0	120

PLCC Type Photosensitive Triode_Top View

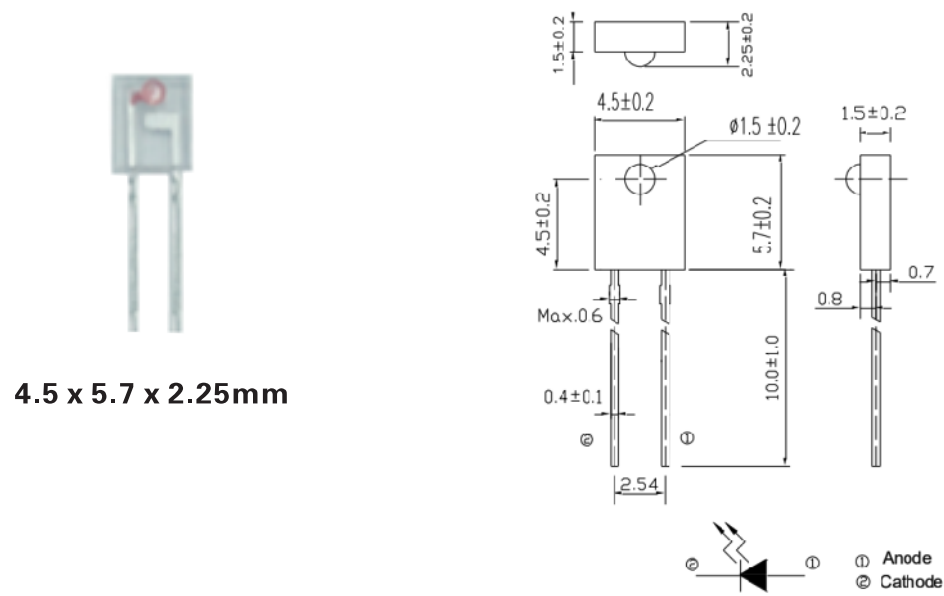


Part No.	Size (LxWxHmm)	λ_p (nm)	Rise/Fall Time (μ S)	Vce (sat) Max (V)	Ic (on) Min (mA)	Ic (on) Typ (mA)	Ic (on) Max (mA)
OR-PL2835PTC	2.8x3.5x0.7	940	15/15	0.4	6.0	9.0	--
OR-PL2835PTB	2.8x3.5x0.7	940	15/15	0.4	5.68	7.5	--



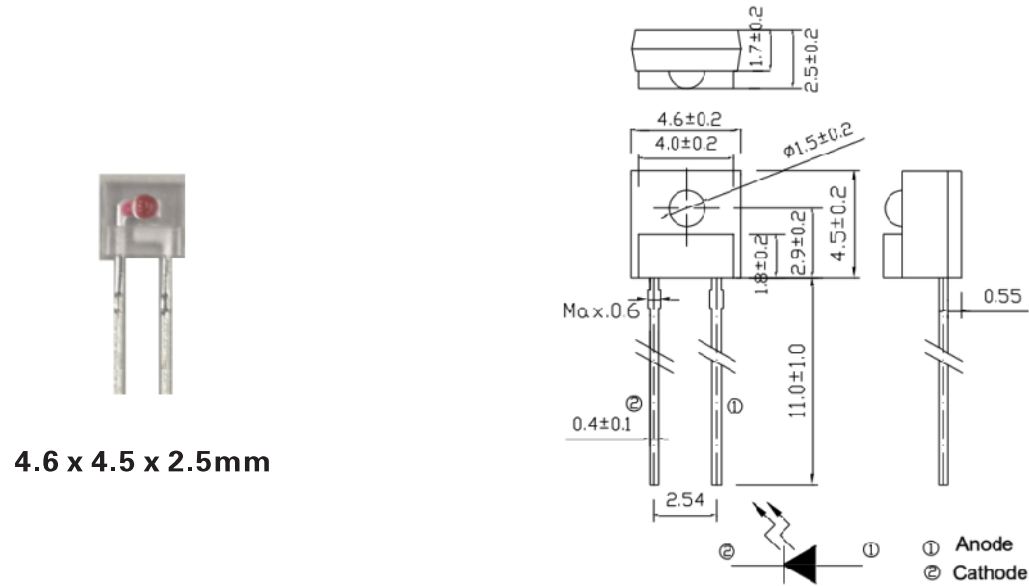
Part No.	Size (LxWxHmm)	λ_p (nm)	Rise/Fall Time (μ S)	Vce (sat) Max (V)	Ic (on) Min (mA)	Ic (on) Typ (mA)	Ic (on) Max (mA)
OR-PL3528PTC	2.8x3.5x0.7	940	15/15	0.4	6.0	9.0	--
OR-PL3528PTB	2.8x3.5x0.7	940	15/15	0.4	5.68	7.5	--

Lamp Type Infrared_Side View



4.5 x 5.7 x 2.25mm

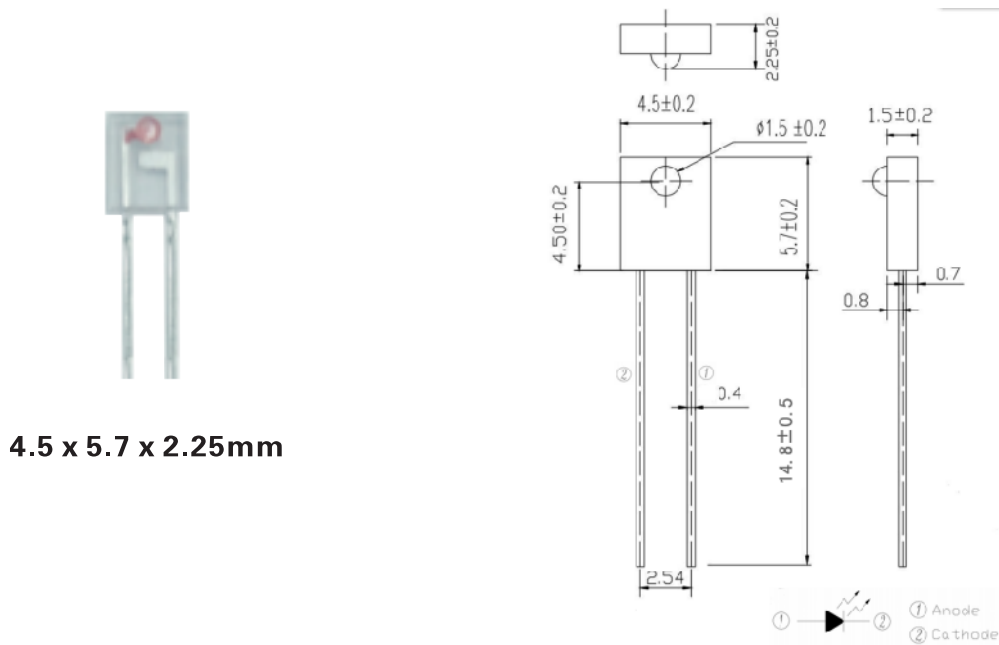
Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ic (on) _Min(uA)	Ic (on) _Typ(uA)	View Angle(°)
ORL-IR908-7C-F	4.5 x 2.25 x 5.7	940	1.2	1.5	143	--	40



4.6 x 4.5 x 2.5mm

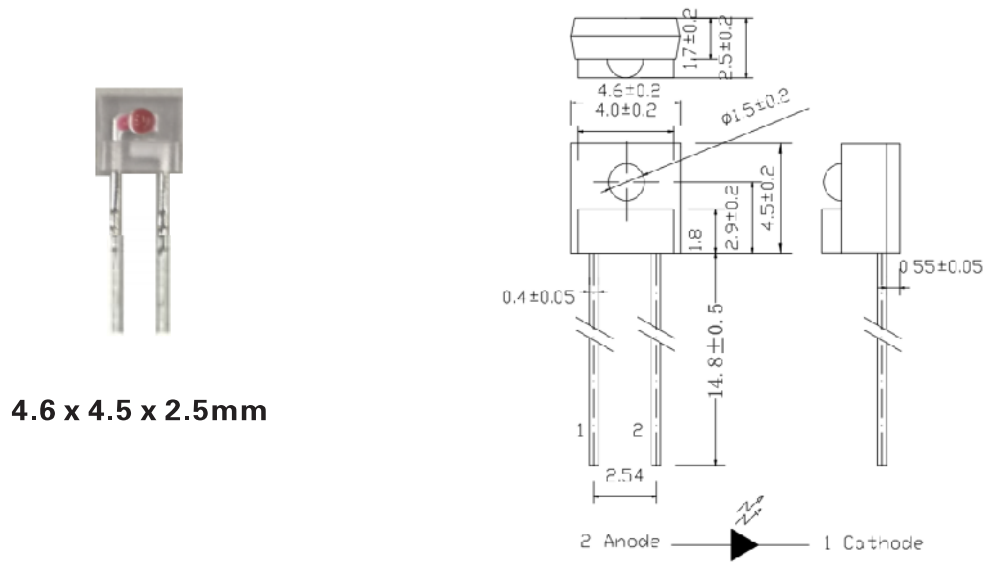
Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ic (on) _Min(uA)	Ic (on) _Typ(uA)	View Angle(°)
ORL-IR928-6C-F	4.6 x 2.5 x 4.5	940	1.2	1.5	306	--	20

Lamp Type Infrared_Side View



4.5 x 5.7 x 2.25mm

Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ic (on) _Min(uA)	Ic (on) _Typ(uA)	View Angle(°)
ORL-IR908-7C	4.5 x 2.25 x 5.7	940	1.2	1.5	143	--	40

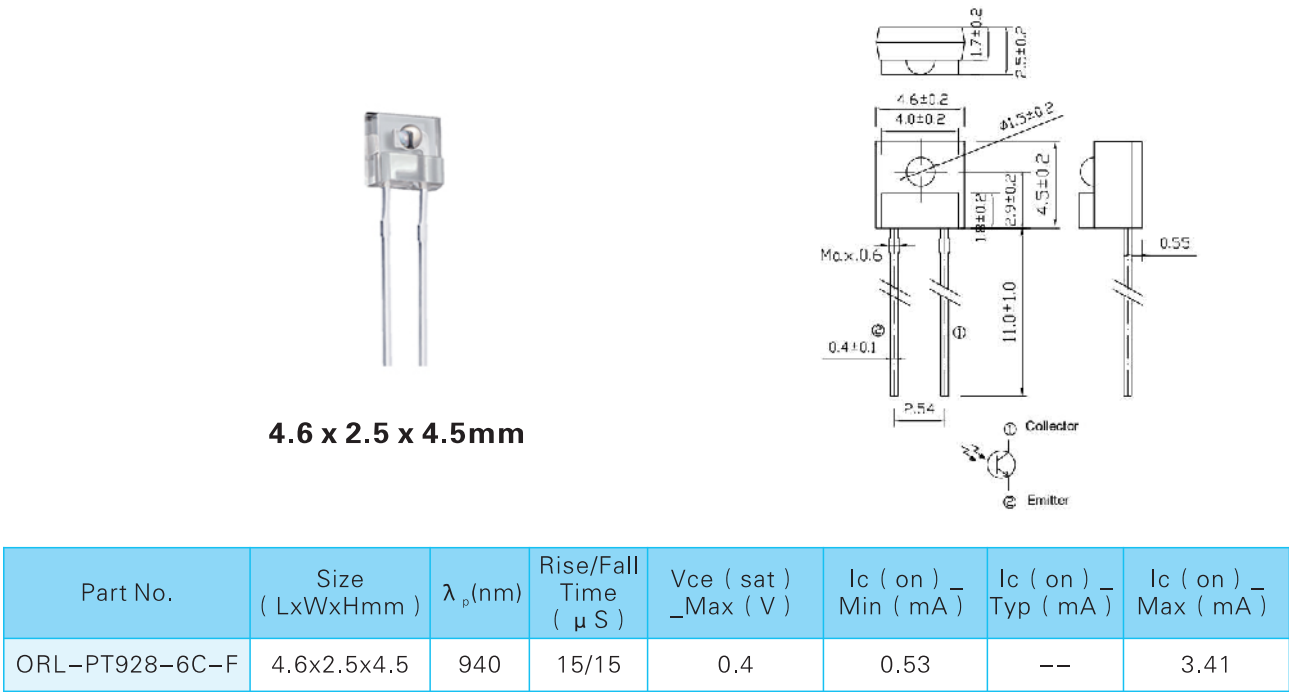
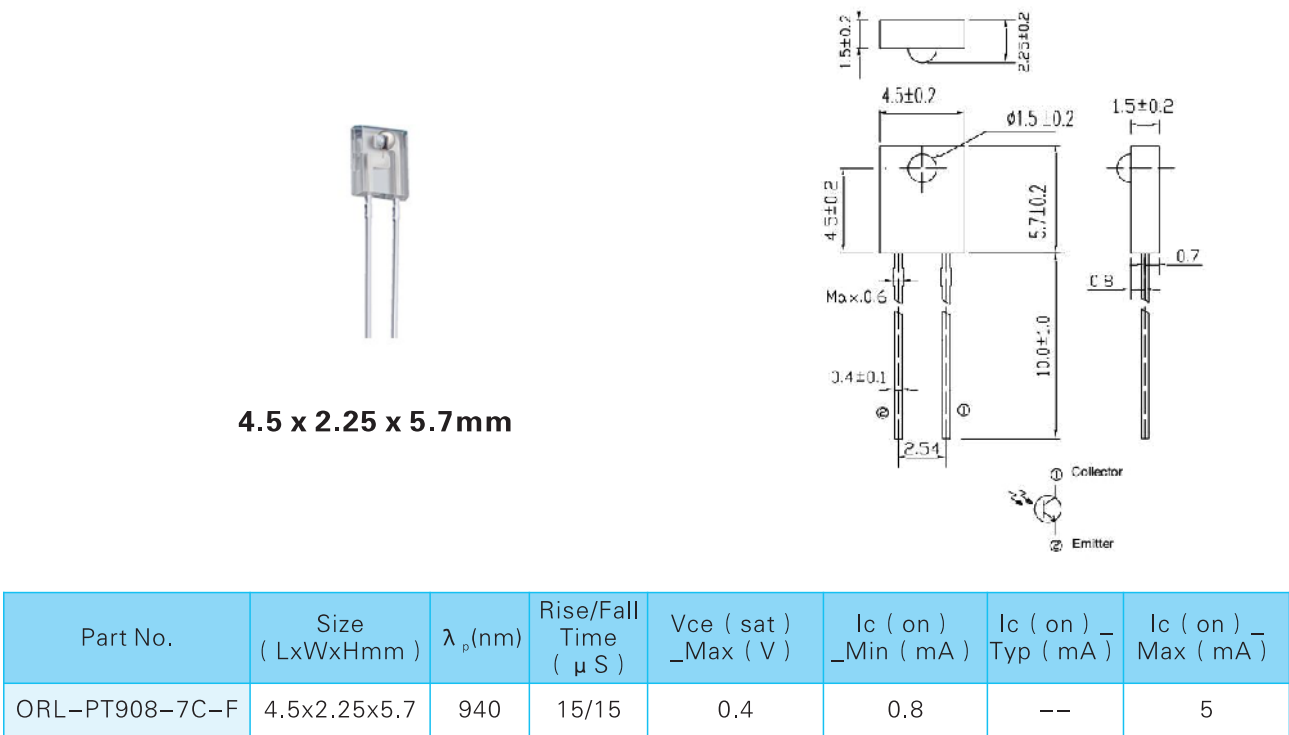


4.6 x 4.5 x 2.5mm

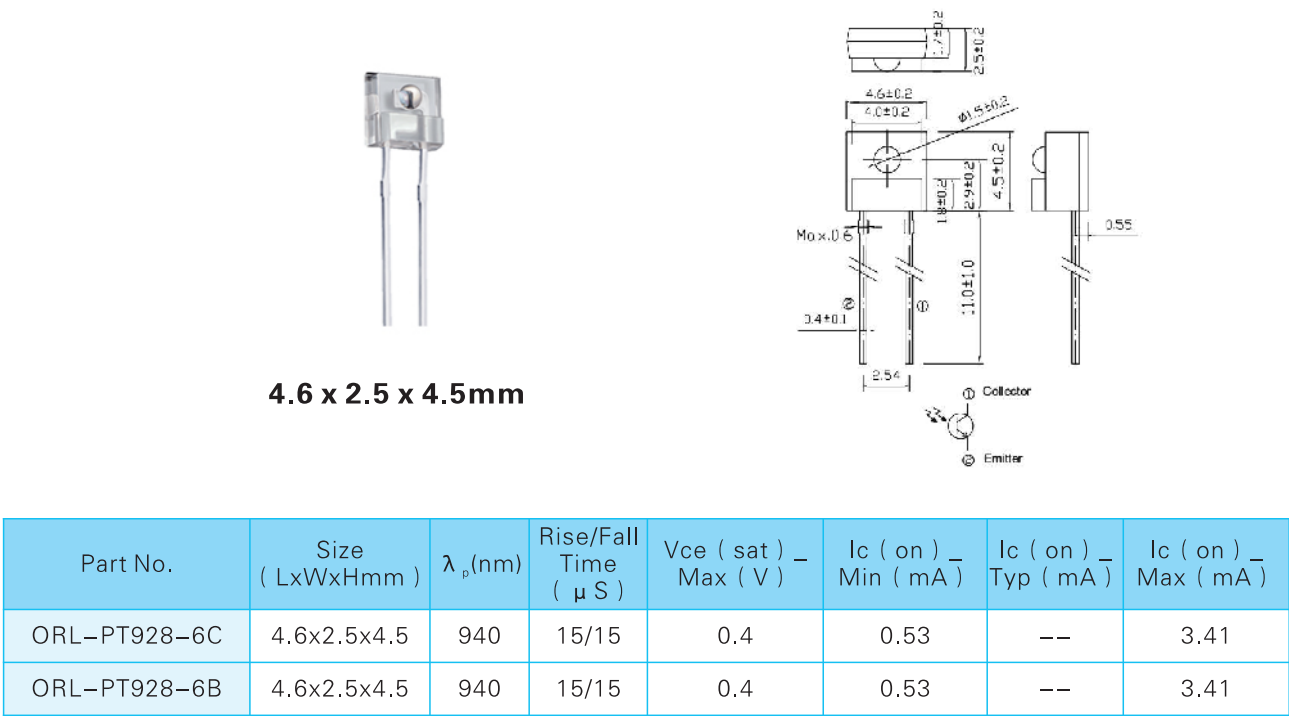
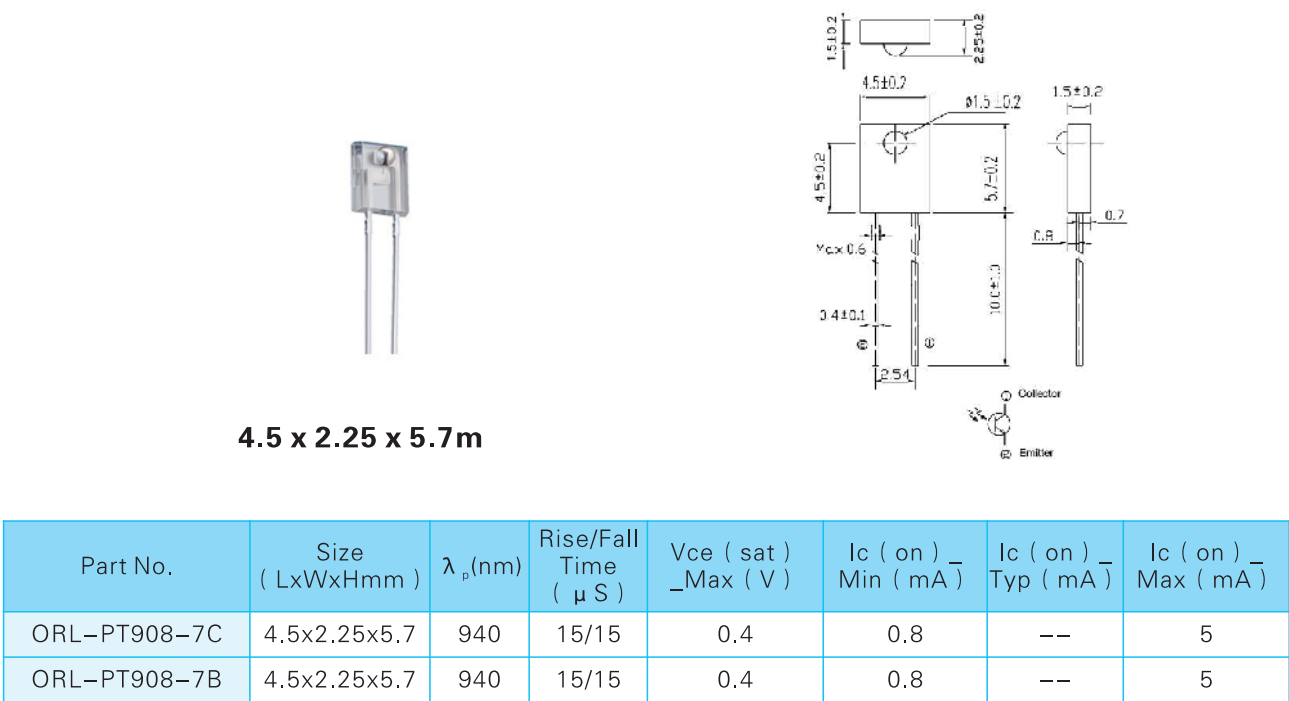
Part No.	Size (LxWxHmm)	λ_p (nm)	VF Typ (V)	VF Max (V)	Ic (on) _Min(uA)	Ic (on) _Typ(uA)	View Angle(°)
ORL-IR928-6C	4.6 x 2.5 x 4.5	940	1.2	1.5	306	--	20

Optical Package

Lamp Type Photosensitive Triode_Side View



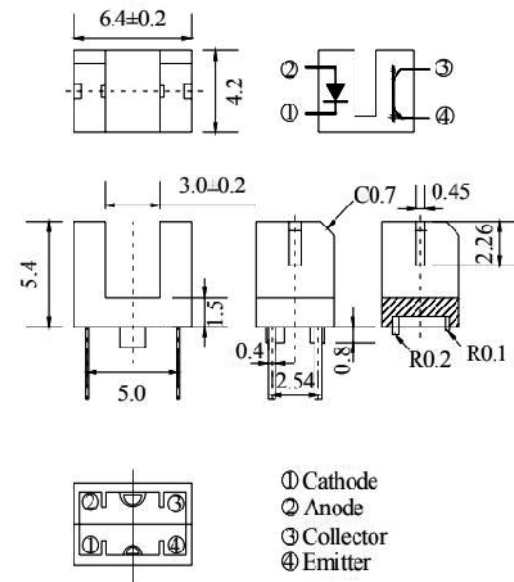
Lamp Type Photosensitive Triode_Side View



Optical Sensors



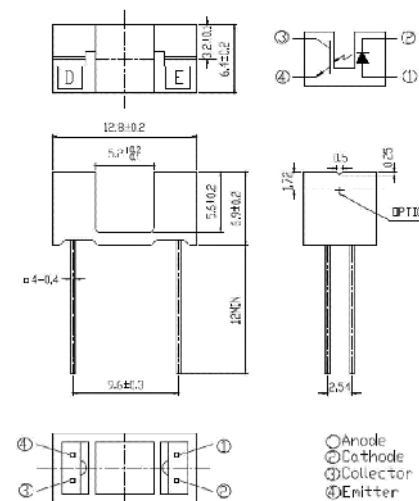
6.4*4.2*5.4mm



Part No.	Size(LxWxHmm)	VF_Typ(V)	VF_Max(V)	VCE(sat)_Max(V)	Ic(ON)_Min (mA)	Iceo_Max (nA)	Gap Distance(mm)
ORTR-352	6.4*4.2*5.4	1.2	1.6	0.4	0.2	100	3



12.8*6.4*6.9mm

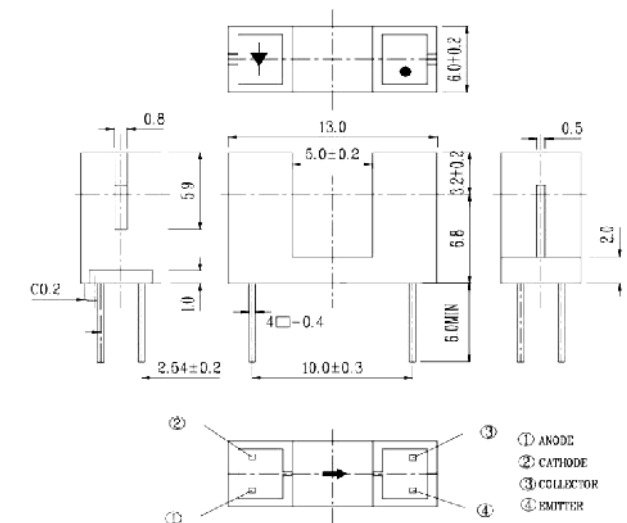


Part No.	Size(LxWxH mm)	VF_Typ(V)	VF_Max(V)	VCE(sat)_Max(V)	Ic(ON)_Min(m A)	Iceo_Max(n A)	Gap Distance(mm)
ORTR-9707	12.8*6.4*6.9	1.2	1.5	0.4	0.5	100	5.2

Optical Sensors



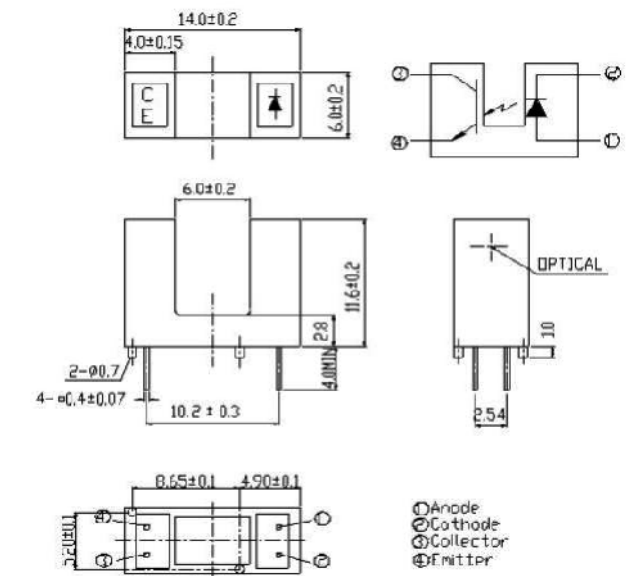
13*6*10mm



Part No.	Size(LxWxHmm)	VF_Typ(V)	VF_Max(V)	VCE(sat)_Max(V)	Ic(ON)_Min (mA)	Iceo_Max (nA)	Gap Distance (mm)
ORTR-9608-F	13*6*10	1.2	1.5	0.4	0.5	100	5

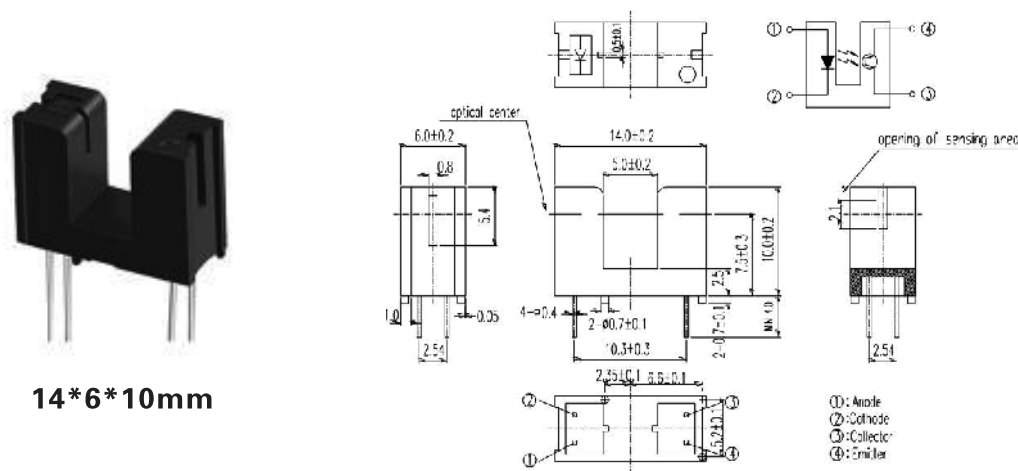


14*6*11.6mm



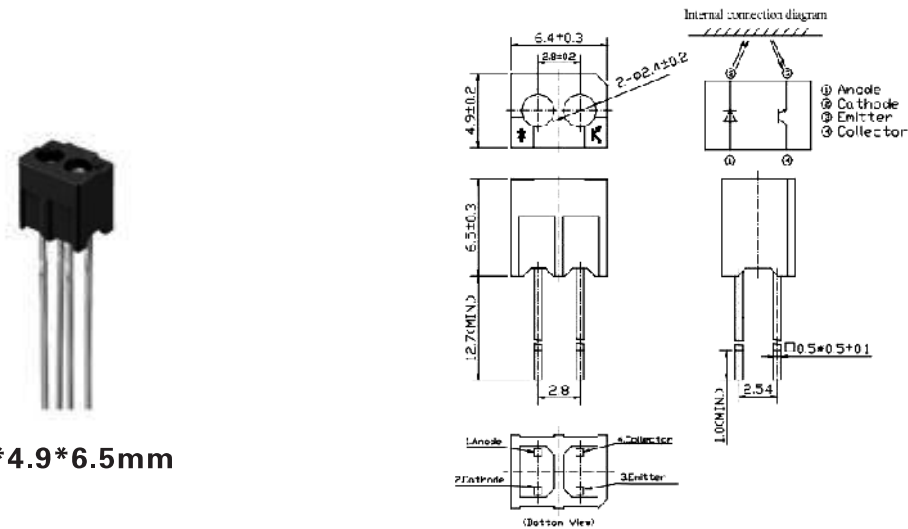
Part No.	Size(LxWxHmm)	VF_Typ(V)	VF_Max(V)	VCE(sat)_ Max(V)	Ic(ON)_ Min(mA)	Iceo_Max (nA)	Gap Distance (mm)
ORTR-8402-F-A	14*6*11.6	1.2	1.5	0.4	0.5	100	6

Optical Sensors



14*6*10mm

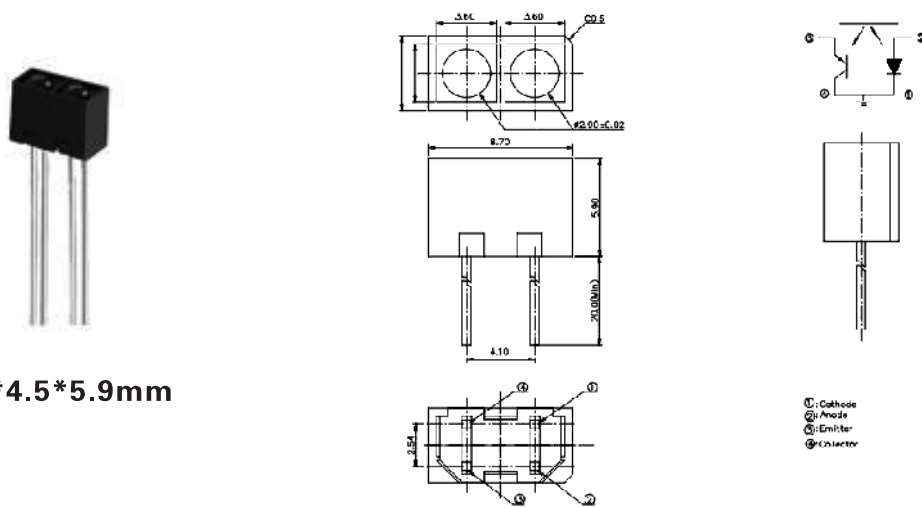
Part No.	Size(LxWxHmm)	VF_Typ(V)	VF_Max(V)	VCE(sat)_Max(V)	Ic(ON)_Min(mA)	Iceo_Max(nA)	Gap Distance(mm)
ORTR-9606-F	14*6*10	1.2	1.6	0.4	0.2	100	5



6.4*4.9*6.5mm

Part No.	Size (LxWxHmm)	VF_Typ(V)	VF_Max(V)	VCE(sat)_Max(V)	Ic(ON)_Min(mA)	Iceo_Max(nA)
ORTR-20001-T	6.4*4.9*6.5	1.2	1.5	0.4	0.2	100

Optical Sensors



8.7*4.5*5.9mm

Part No.	Size (LxWxHmm)	VF_Typ (V)	VF_Max(V)	VCE(sat)_Max(V)	Ic(ON)_Min(mA)	Iceo_Max (nA)
ORTR-9909	8.7*4.5*5.9	1.2	1.5	0.4	0.2	100