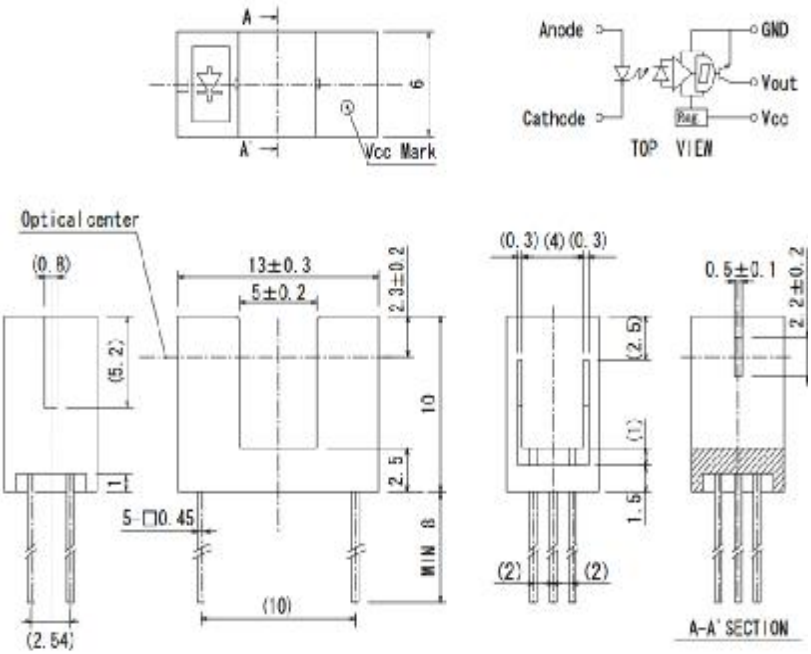
NEW PRODUCT

SIC507D
Photo Interrupter

The SIC507D is a Transmission type photointerrupter combined high powe infrared LED with Photo-IC.Being suitable for highly accurate position detecting,it is great help in developing an object detecting system of high performance and high reliability

Dimensions **(Unit: mm)**



Features

- GAP:5.0mm
- PWB direct mount type
- RoHS Compliance

Applications

- Printers
- Exchanging machine
- Amusement machine
- Copiers

Maximum Ratings

(Ta=25℃)

Item		Symbol	Rating	Unit
Input	Power dissipation	P_D	100	mW
	Forward current	I_F	60	mA
	Reverse voltage	V_R	5	V
Output	Supply Voltage	V_{CC}	-0.5~17	V
	Low level output current	I_{OL}	30	mA
	Power dissipation	Po	200	mW
Operating temperature *1*2		Topr.	-20 ～ +85	℃
Storage temperature *1*2		Tstg.	-30 ～ +85	℃
Soldering temperature *3		Tsol.	260	℃

*1. No icebound or dew.
*2. The connector shall be inserted or pulled out at normal temperature
*3. For max.5 seconds at the position of 1mm from the package

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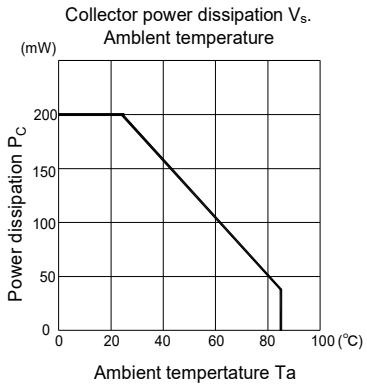
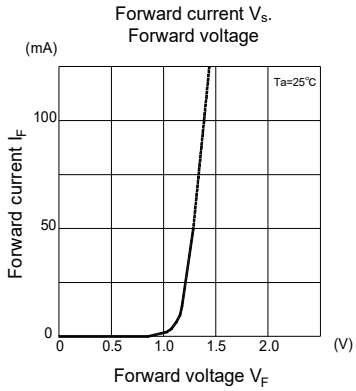
Elector-Optical Characteristics

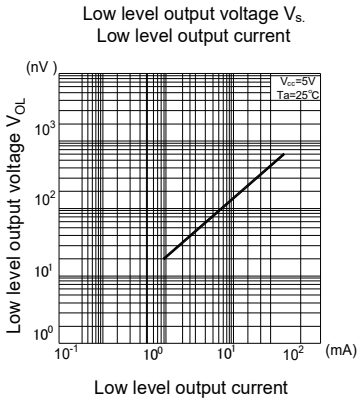
(Ta=25℃)

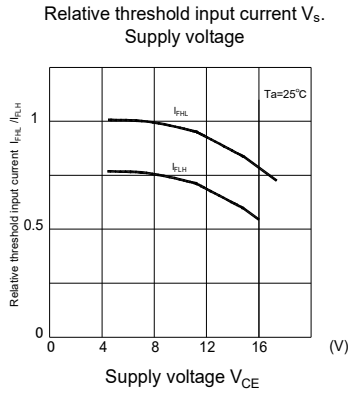
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	I_F=20mA	-	1.2	1.4	V
	Reverse current	I_R	V_R=5V	-	-	10	μA
	Peak wavelength	λ_P	I_F=20mA	-	940	-	nm
Output	Operating Voltage	V_{CC}	—	4.5	—	16.5	V
	LO-LVL Output Voltage	V_{OL}	V_{CC}= 5V, I_F= 0mA, I_{OL}= 16mA	—	0.3	0.4	V
	HI-LVL Output Voltage	V_{OH}	V_{CC}= 5V, I_F= 20mA, R_L= 10kΩ	4.5	—	—	V
	LO-LVL Supply Current	I_{CCL}	V_{CC}= 5V, I_F= 0mA, R_L= 10kΩ	—	3	10	mA
	HI-LVL Supply Current	I_{CCH}	V_{CC}= 5V, I_F= 20mA, R_L= 10kΩ	—	2	10	mA
Transfer charact-eristics	Sreshold Input Current	I_{FLH} *4	V_{CC}= 5V, R_L= 10kΩ	—	5	12	mA
	Hysterisis	I_{FHL}/I_{FLH} *5	V_{CC}= 5V, R_L= 10kΩ	0.6	0.83	0.98	—
	LO→HI Propagation Speed	t_{PLH}	V_{CC}= 5V, I_F= 18mA, R_L= 3.3kΩ	—	1	—	μs
	HI→LO Propagation Speed	t_{PHL}		—	3	—	μs
	Rise Time	tr		—	0.6	—	μs
	Fall Time	tf		—	0.02	—	μs

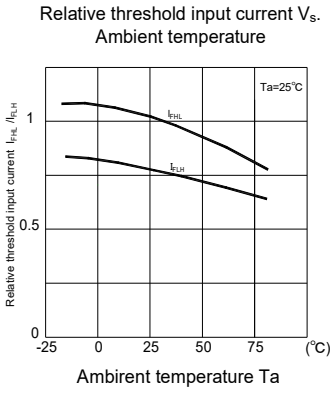
*4. IFLH represents forward current when output changes from low to high.
*5. IFHL represents forward current when output changes from high to low.











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Packing Specification

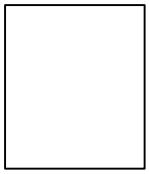
1.Fixed quantity (max 1000pcs) of the products are packed into plastic bags

2.Six bags of the products are put into #2 Box(max 6000pcs)

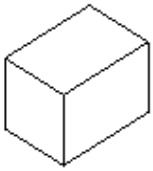
3.Two #2 Boxes are put into #3 Box(max 12000pcs)

4.Paste packing slip

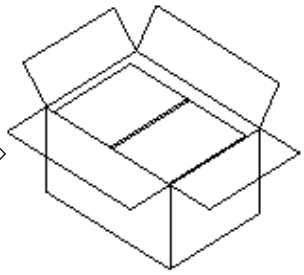
SIC507D (max 1000pcs)



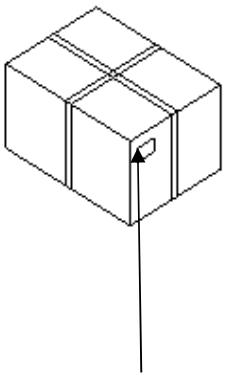
plastic bag (300*380)*6



#2 box*2



#3 box(max 12000 pcs)



packing slip

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