NEW PRODUCT

KODENSHI

SIC204F
Photo Interrupter

SIC204F is Transmission type photointerrupter combined high power GaAs IRED 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.

Features

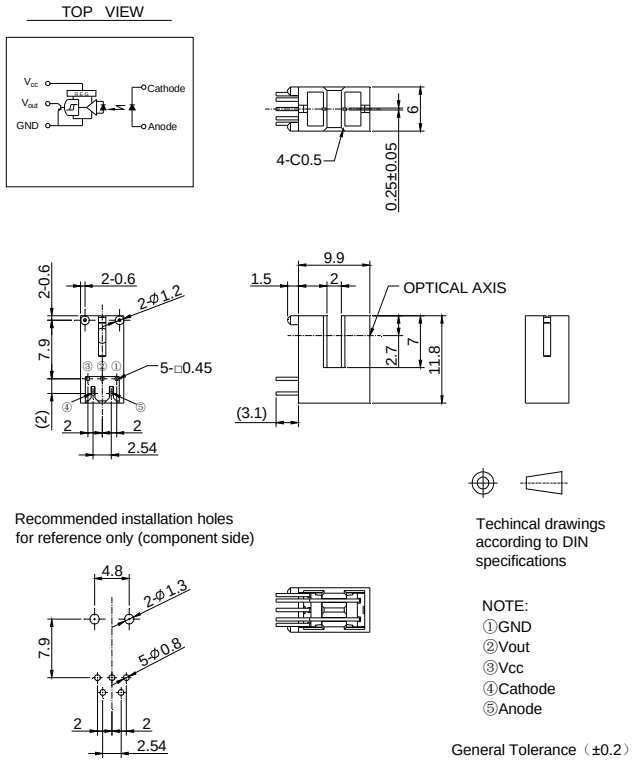
- PWB direct mount type
- GAP:2.0mm
- High resolution（ slit 0.25mm ）
- With the installation positioning boss
- RoHS Compliance

Applications

- Printer
- Fax
- Vending machines
- Amusement machines
- Encoders

Dimensions

(Unit: mm)



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
	Pulse forward current *1	I_{FP}	1	A
Output	Supply voltage	V_{CC}	17	V
	Low level output current	I_{OL}	30	mA
	Power dissipation	P_D	200	mW
Operating temperature		Topr.	-20 ～ +85	℃
Storage temperature *2		Tstg.	-30 ～ +85	℃
Soldering temperature *3		Tsol.	260	℃

*1. pulse width：tw≦100μs period：T=10ms

*2. No icebound or dew.

*3. The soldering should be 1.2mm away from bottom of the holder t=within 3s

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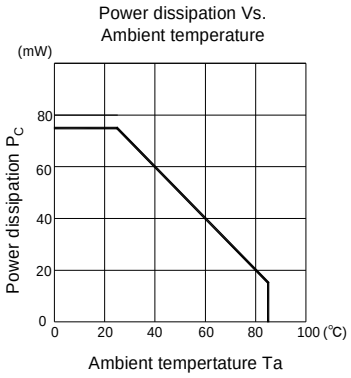
Elector-Optical Characteristics

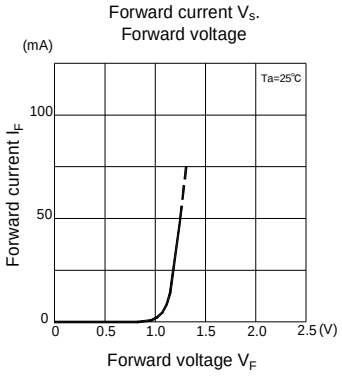
(Ta=25℃)

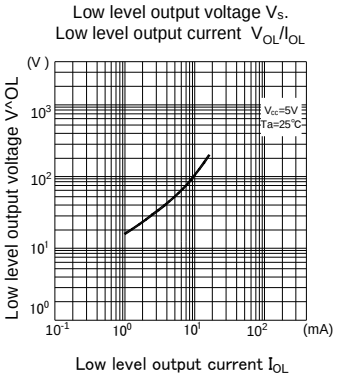
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	I_F=20mA	-	1.2	1.4	V
	Reverse current	I_R	V_R=5V	-	-	10	μA
	Peak wavelength	λ_P	I_F=20mA	-	940	-	nm
Output	Operating Voltage	V_{CC}	—	3.3	—	16.5	V
	LO-LVL Output Voltage	V_{OL}	V_{CC}= 5 V, I_F= 0mA, I_{OL}= 16mA	—	—	0.4	V
	HI-LVL Output Voltage	V_{OH}	V_{CC}= 5 V, I_F= 20mA, R_L= 10kΩ	4.5	—	—	V
	LO-LVL Supply Current	I_{CCL}	V_{CC}= 5 V, I_F= 0mA, R_L= 10kΩ	—	—	10	mA
	HI-LVL Supply Current	I_{CCH}	V_{CC}= 5 V, I_F= 20mA, R_L= 10kΩ	—	—	10	mA
Transfer charact-eristics	Sreshold Input Current	I_{FLH} *4	V_{CC}= 5 V, R_L= 10kΩ	—	3	12	mA
	Hysterisis	I_{FHL}/I_{FLH} *5	V_{CC}= 5 V, R_L= 10kΩ	—	0.8	—	—
	LO→HI Propagation Speed	t_{PLH}	V_{CC}= 5 V, 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.

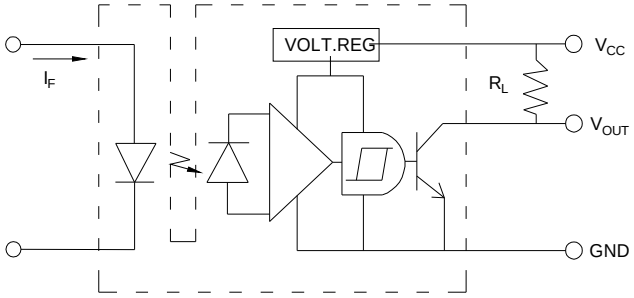
*5. IFHL represents forward current when output changes from high to low.

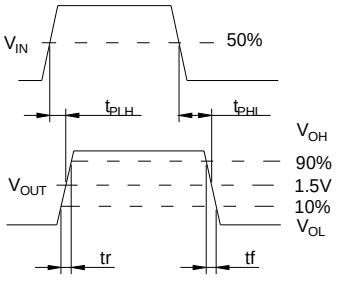






Measurement of propagation time





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Packing Specification

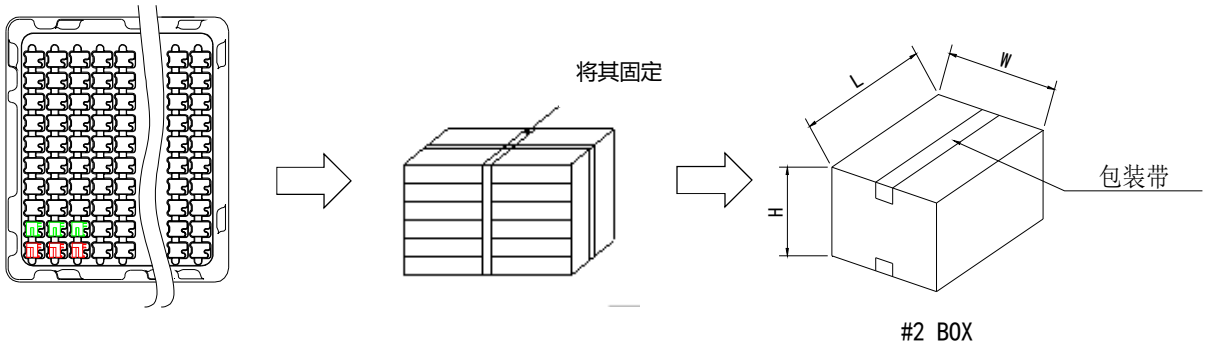
1.Fixed quantity (max 150pcs) of the products are packed into a tray

2.Up to twenty-five trays stack together and should be fixed

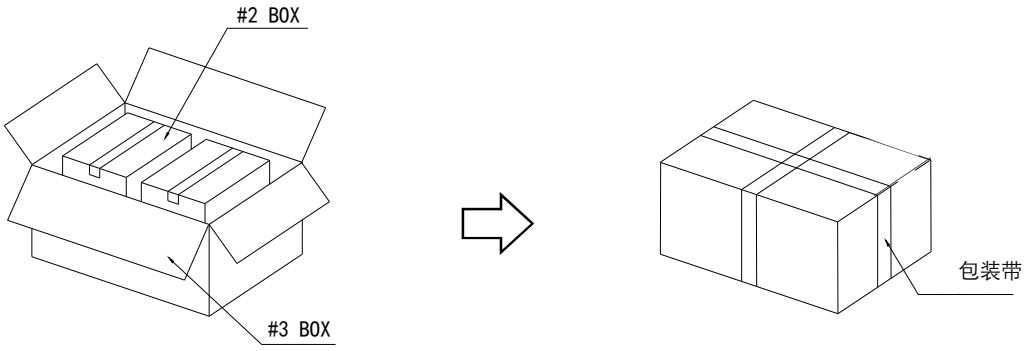
3. The fixed trays are put into #2 Box(max 3.6Kpcs)

4. Two #2 Boxes are put into #3 Box(max 7.2Kpcs)

5.Paste packing slip



SIC204F (max 150pcs)



#2 box*2

#3 box(max 7.2K pcs)

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