

SIT204F-01

Photo Interrupter

Dimensions

(Unit: mm)

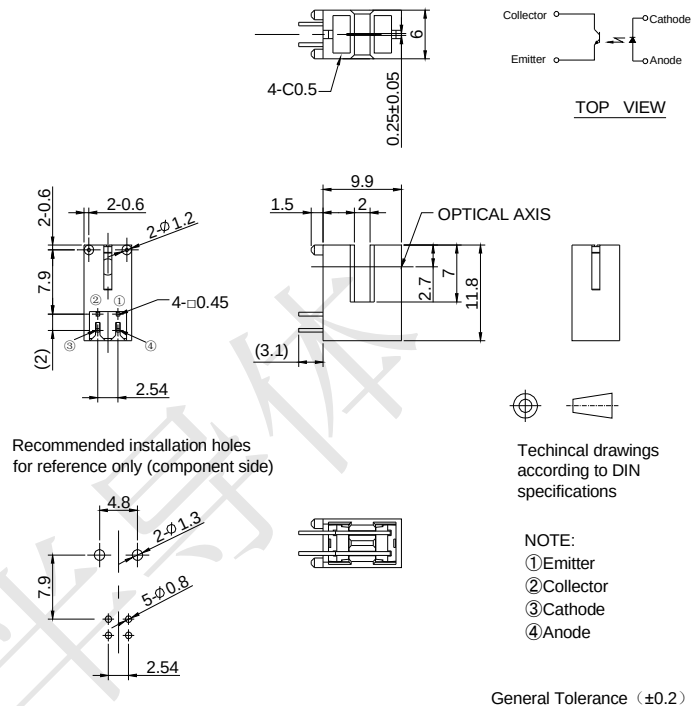
The SIT204F-01 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

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

Applications

- Printer
- Scanner
- CD changers
- Encoders



Maximum Ratings

(Ta=25°C)

Item		Symbol	Rating	Unit
Input	Power dissipation	P_D	75	mW
	Forward current	I_F	50	mA
	Reverse voltage	V_R	5	V
Output	Collector power dissipation	P_C	75	mW
	Collector current	I_C	20	mA
	Collector-Emitter voltage	V_{CEO}	30	V
	Emitter-Collector voltage	V_{ECO}	5	V
Operating temperature		Topr.	-20 ~ +85	°C
Storage temperature ^{*1}		Tstg.	-30 ~ +85	°C
Soldering temperature ^{*2}		Tsol.	260	°C

*1. No icebound or dew.

*2. The soldering should be 1mm away from bottom of the holder t=within 3s

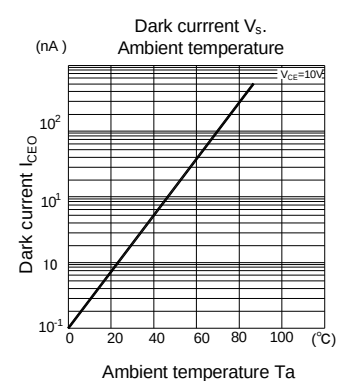
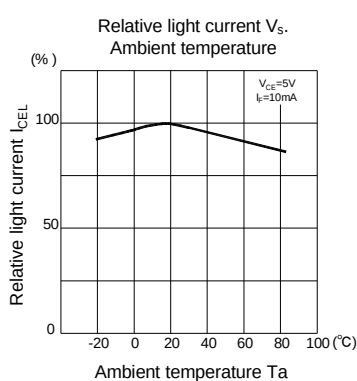
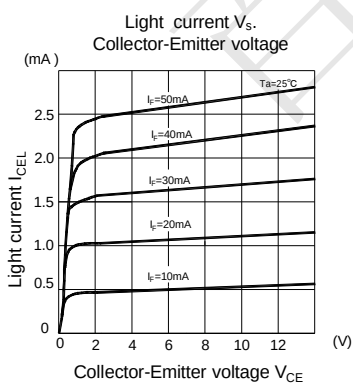
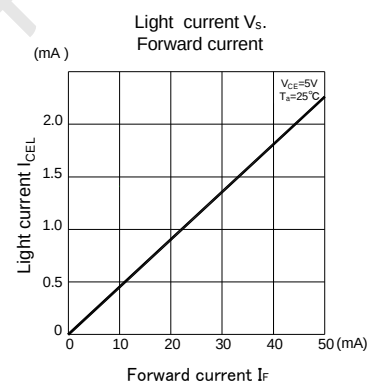
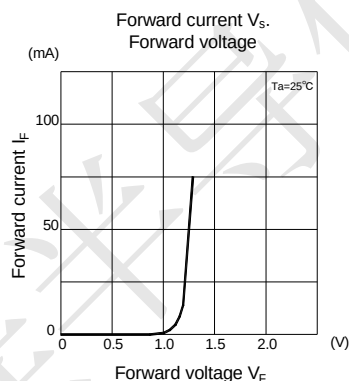
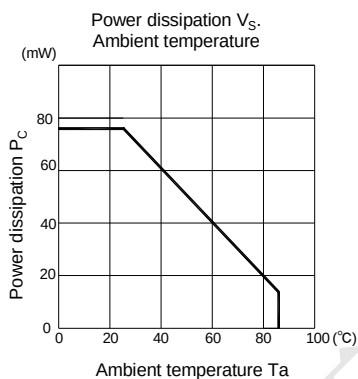
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SIT204F-01

Electro-Optical Characteristics

(Ta=25°C)

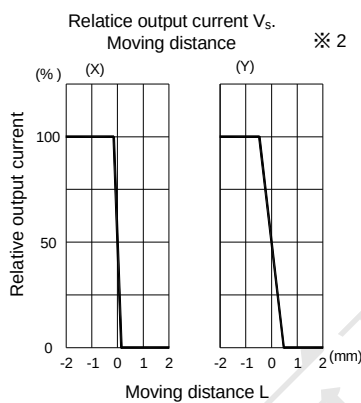
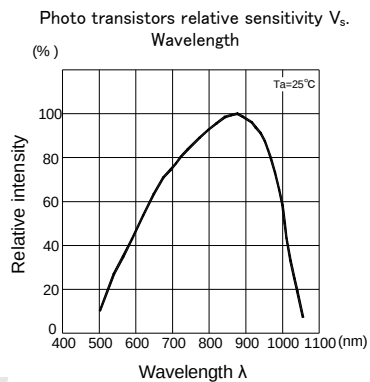
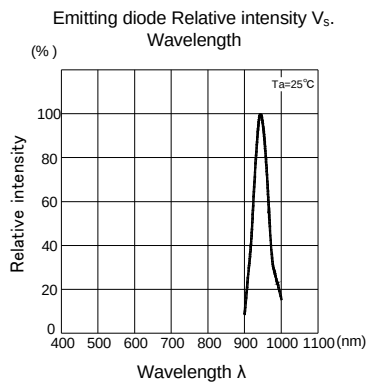
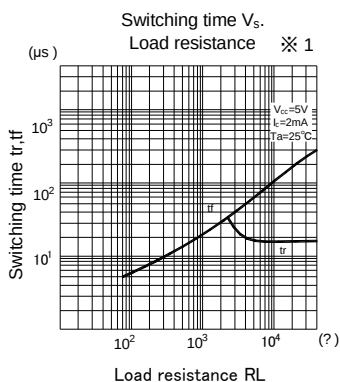
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5\text{V}$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V}$ $E_V=0\text{ lx}$	-	-	1	μA
	Peak SENS.Wavelength	λ_P	-	-	880	-	nm
Transfer characteristics	Light current	I_{CEL}	$I_F=20\text{mA}$ $V_{CE}=5\text{V}$ 入光状态 (Non-Shading)	1.0	-	10	mA
	Leak current	I_{CEOD}	$I_F=20\text{mA}$ $V_{CE}=5\text{V}$ 遮光状态 (Shading)	-	0.5	10	μA
	C-E sat.voltage	$V_{CE(sat)}$	$I_F=20\text{mA}$ $I_C=0.05\text{mA}$	-	0.15	0.4	V
	Rise time	t_r	$V_{CC}=2\text{V}$, $I_C=0.5\text{mA}$, $R_L=1\text{k}\Omega$	-	25	-	μs
	Fall time	t_f		-	30	-	μs



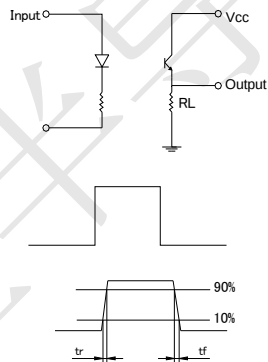
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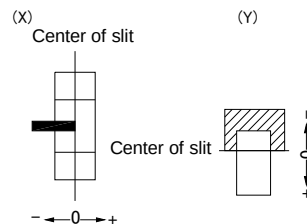
SIT204F-01



※ 1 Switching time measurement circuit



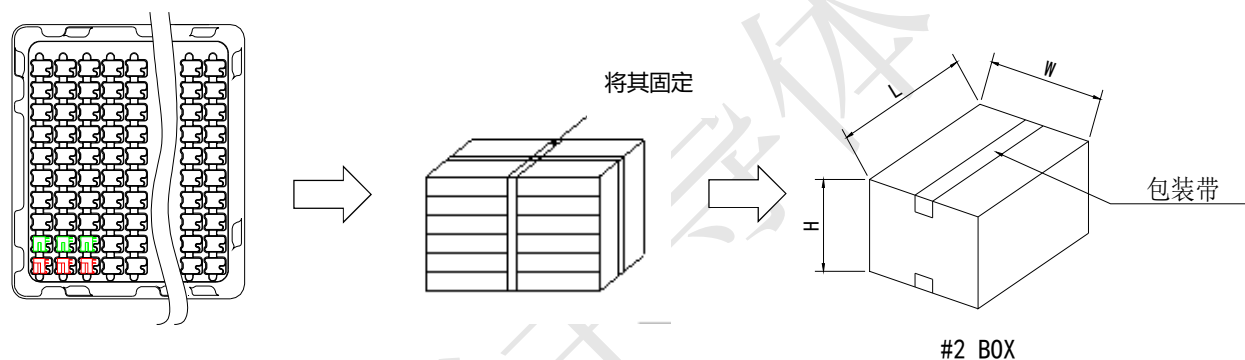
※ 2 Method of measure position detection characteristic



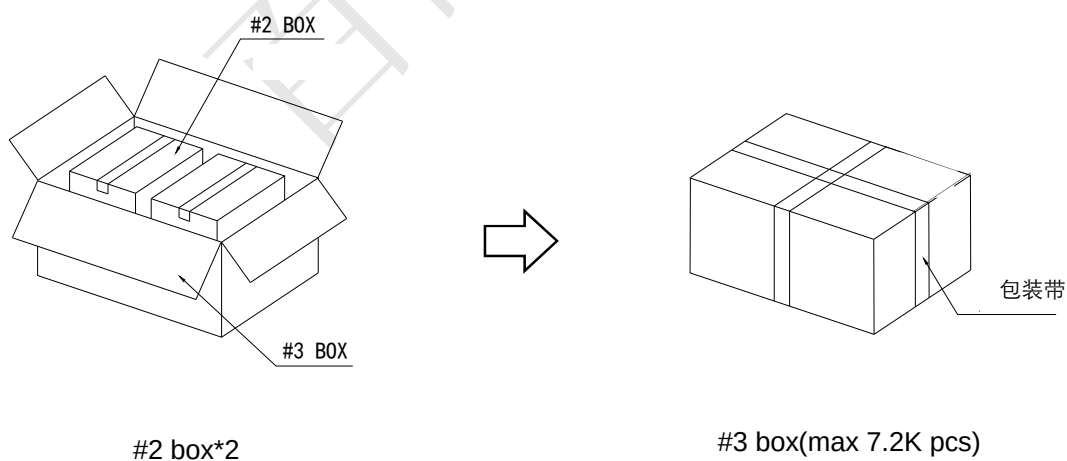
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Packing Specification

- 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



SIT204F-01 (max 150pcs)



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