

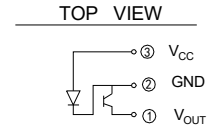
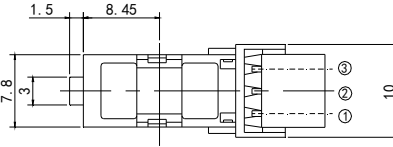
SIT508

Photo Interrupter

Dimensions

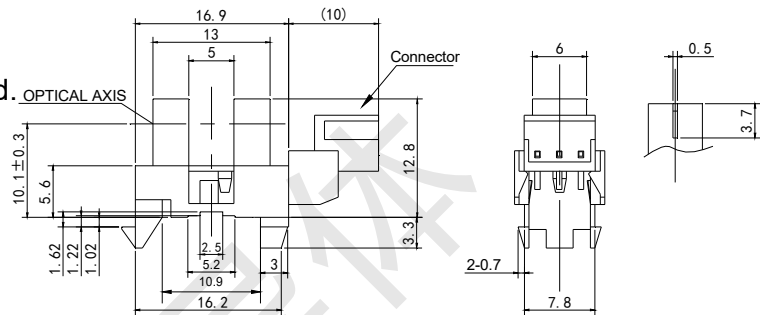
(Unit: mm)

The SIT508 is a double injection dustproof photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.



Features

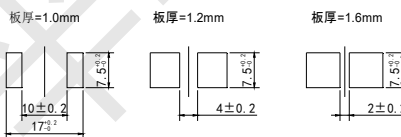
- Connector type AMP(JAPAN) ,Ltd.
- GAP:5.0mm
- Snap-in mount
- 3 kinds of mounting plate thicknesses :1.0mm, 1.2mm, 1.6mm
- RoHS Compliance



Applications

- Printers
- ATM
- Ticket vending machines
- Copiers

Recommended Installation Hole Drawing



注:
1、Connector型号: CONN 292130-3;
2、General Tolerance (±0.2).

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		$T_{opr.}$	-20 ~ +85	°C
Storage temperature ^{*1}		$T_{stg.}$	-30 ~ +85	°C
Soldering temperature ^{*2}		$T_{sol.}$	260	°C

*1. No icebound or dew.

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

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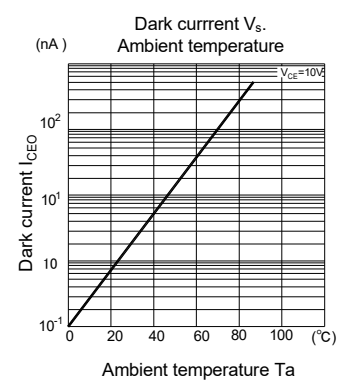
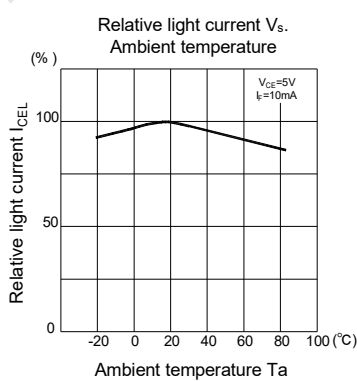
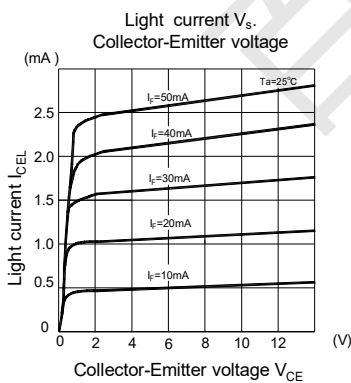
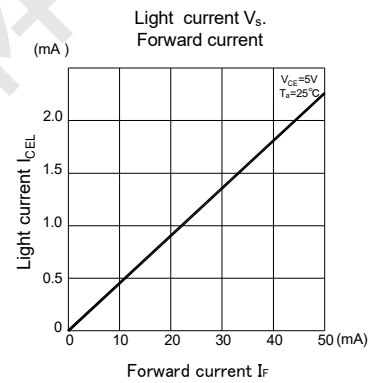
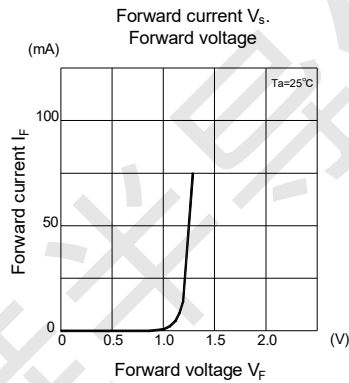
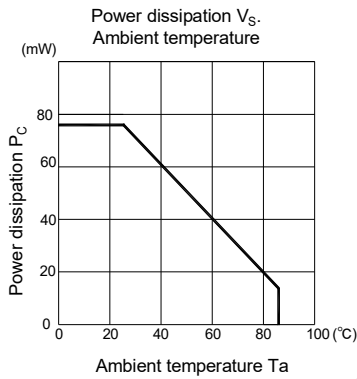
Photo Interrupter

SIT508

Electro-Optical Characteristics

(Ta=25°C)

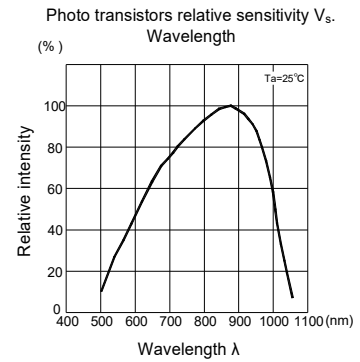
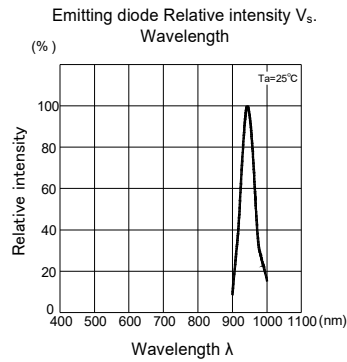
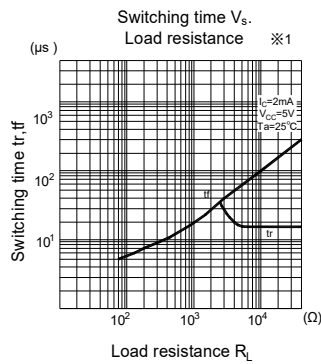
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5\text{V}$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V}$ $E_V=0\text{lx}$	-	-	1	μA
	Peak SENS.Wavelength	λ_P	-	-	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	-	5	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	$I_C=2\text{mA}$ $V_{CC}=5\text{V}$ $R_L=100\Omega$	-	4	-	μs
	Fall time	t_f		-	5	-	μs



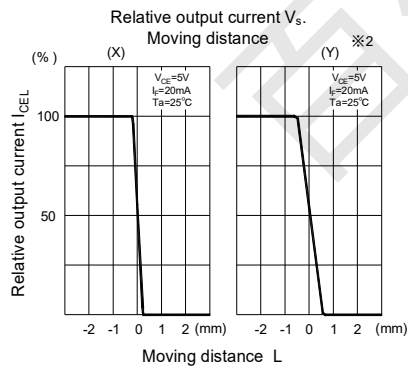
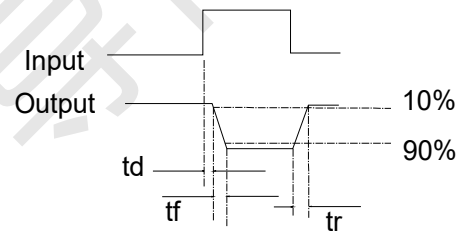
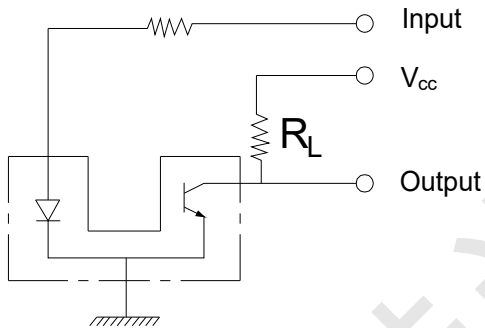
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Photo Interrupter

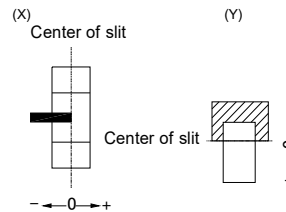
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※ 1 Switching time measurement circuit



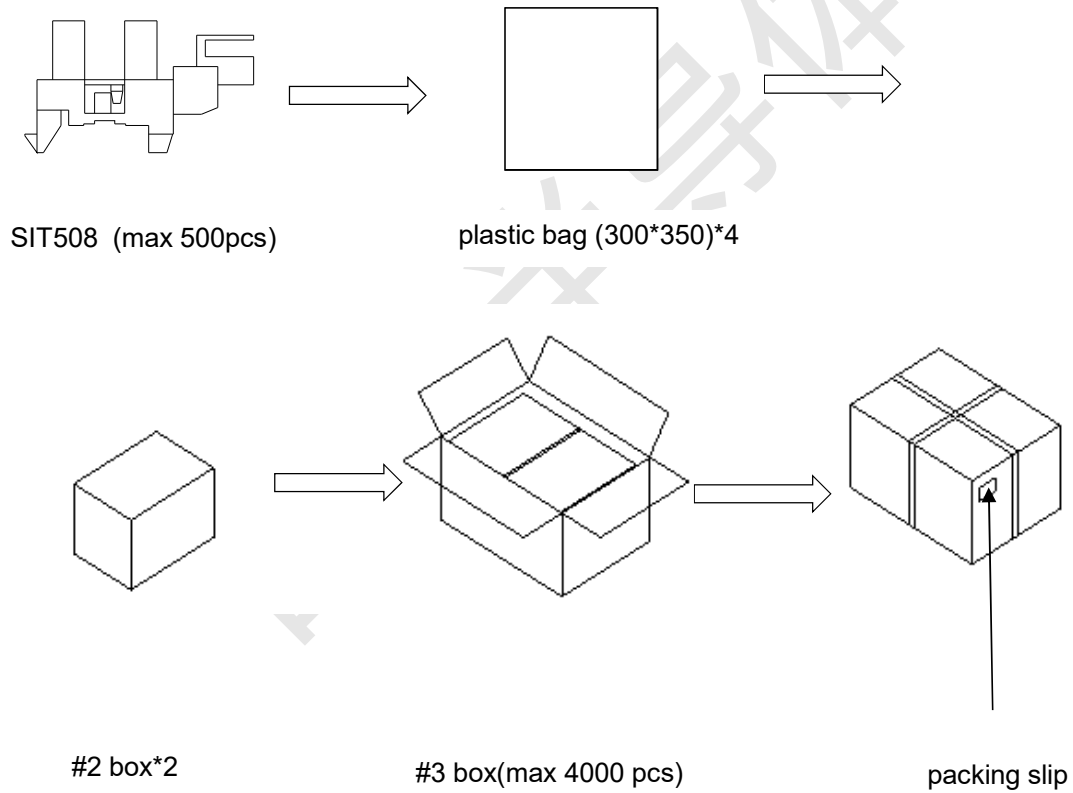
※ 2 Method of measure position detection characteristic



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Packing Specification

- 1.Fixed quantity (max 500pcs) of the products are packed into plastic bags
- 2.Four bags of the products are put into #2 Box(max 2000pcs)
3. Two #2 Boxes are put into #3 Box(max 4000pcs)
- 4.Paste packing slip



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