

SIT601

Photo Interrupter

The SIT601 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

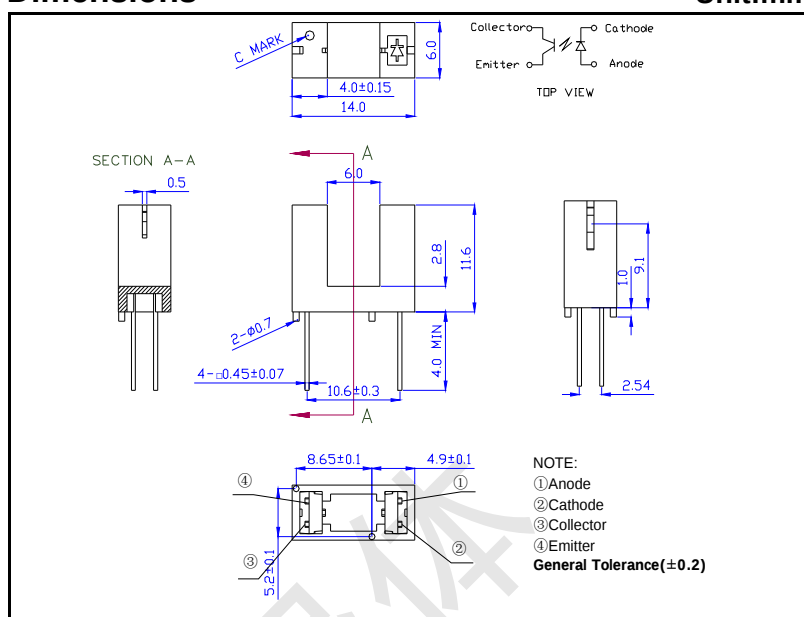
- PCB direct mount type
- GAP:6mm
- RoHS Compliance

Applications

- Printers
- Faxes
- Scanners

Dimensions

Unit:mm



Maximum Ratings

(Ta=25°C)

Item	Symbol	Ratings	Unit
Input	Power dissipation	P_D	100
	Forward current	I_F	60
	Reverse voltage	V_R	5
	Pulse forward current *1	I_{FP}	1
Output	Collector power dissipation	P_C	100
	Collector current	I_C	40
	Collector-Emitter voltage	V_{CEO}	30
	Emitter-Collector voltage	V_{ECO}	5
Operating temperature *2		$T_{opr.}$	-20~+85
Storage temperature *2		$T_{stg.}$	-30~+85
Soldering temperature *3		$T_{sol.}$	260

* 1. Pulse width: $t_w \leq 100\mu s$ period=10ms

* 2. No icebound or dew

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

Electro-Optical Characteristics

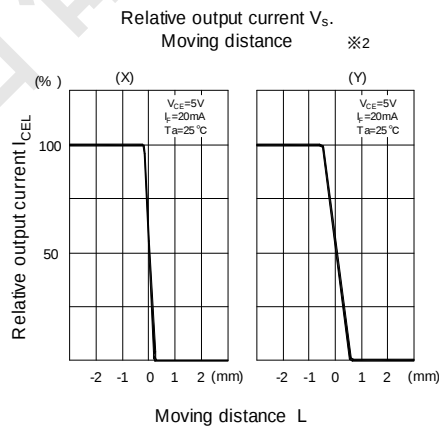
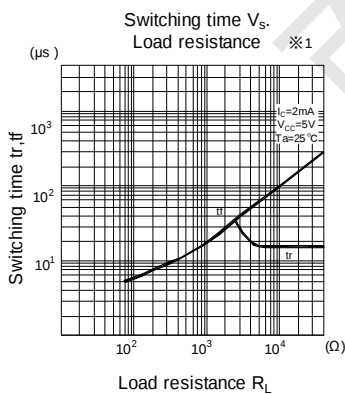
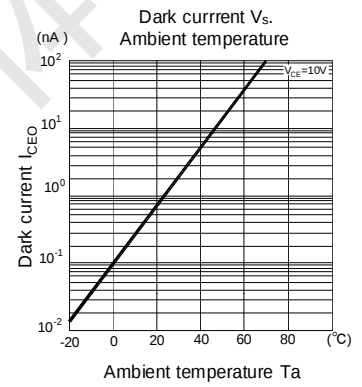
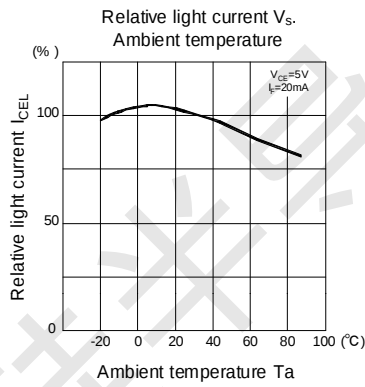
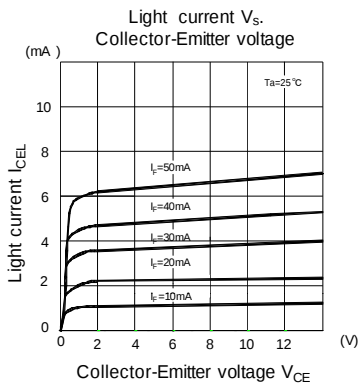
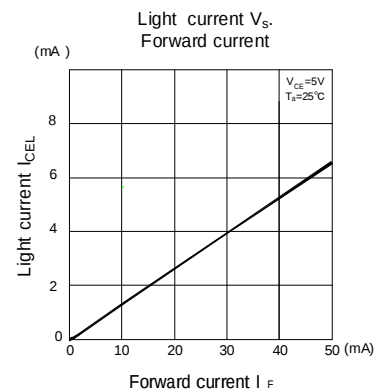
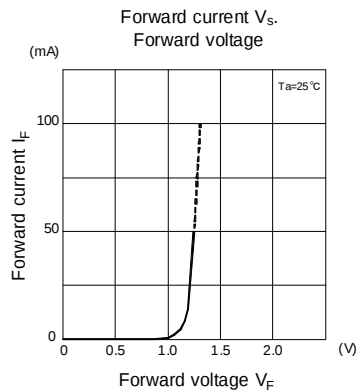
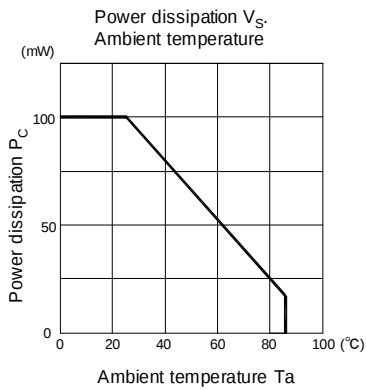
(Ta=25°C)

Item	Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20mA$	-	1.2	1.4
	Reverse current	I_R	$V_R=5V$	-	-	10
	Peak wavelength	λ_p	$I_F=20mA$	-	940	-
Output	Collector dark current	I_{CEO}	$V_{CE}=10V, E_V=0lx$	-	1	100
Transmission	Light current	I_C	$V_{CE}=5V, I_F=20mA, \text{Non-shading}$	0.5	-	10
	C-E saturation voltage	$V_{CE}(\text{sat})$	$I_F=20mA, I_C=0.1mA$	-	0.15	0.4
	Rise time	t_r	$V_{CC}=5V, I_C=2mA, R_L=100\Omega$	-	4	-
	Fall time	t_f	$V_{CC}=5V, I_C=2mA, R_L=100\Omega$	-	5	-

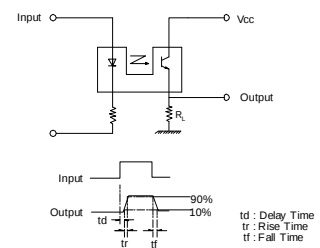
The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

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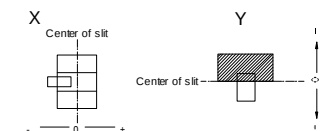
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*1 Switching time measurement circuit



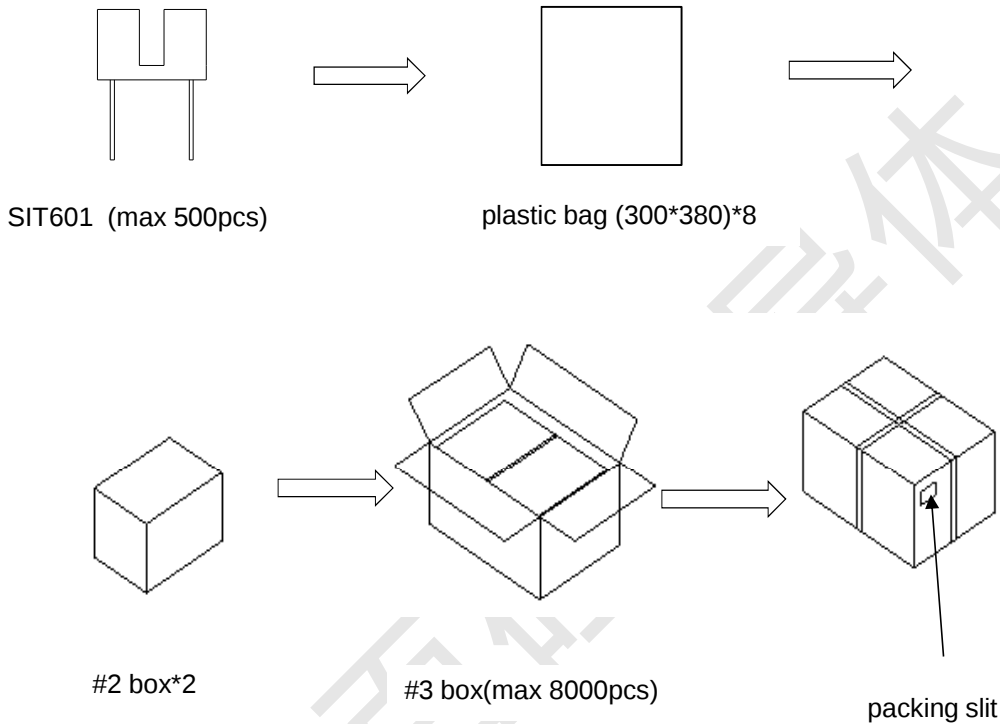
*2 Method of measuring position detection characteristic



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Packing Specification

- 1.Fixed quantity (max 500pcs) of the products are packed into plastic bag(300*380)
- 2.Eight bags of the products are put into #2 box(max 4000pcs)
3. Two #2 Boxes are put into #3 Box(max 8000pcs)
4. Packing slit is pasted on #3 box.



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