

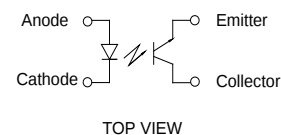
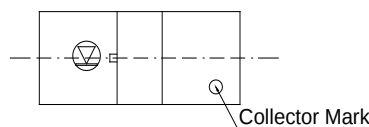
SIT303-01

Photo Interrupter

Dimensions

Unit:mm

The SIT303-01 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

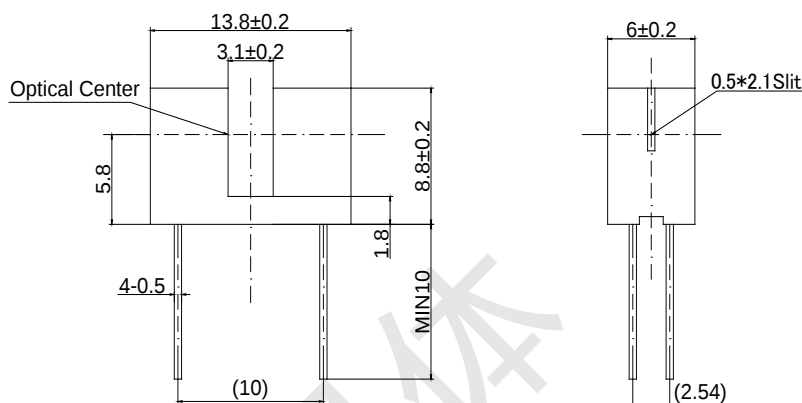


Features

- PCB direct mount type
- GAP:3.1mm
- RoHS Compliance

Applications

- Printers
- Faxes
- Scanners



* General Tolerance(±0.2mm)

Maximum Ratings

(Ta=25°C)

Item		Symbol	Ratings	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	Collector power dissipation	P_C	100	mW
	Collector current	I_C	40	mA
	Collector-Emitter voltage	V_{CEO}	30	V
	Emitter-Collector voltage	V_{ECO}	5	V
Operating temperature *2		$T_{opr.}$	-20~+85	°C
Storage temperature *2		$T_{stg.}$	-30~+85	°C
Soldering temperature *3		$T_{sol.}$	260	°C

* 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. $t \leq$ within 3s

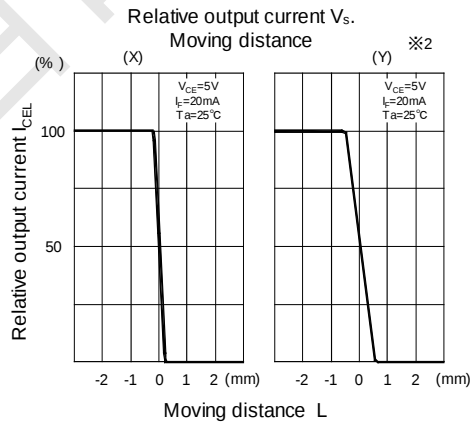
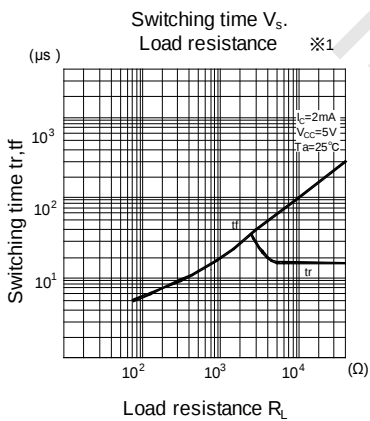
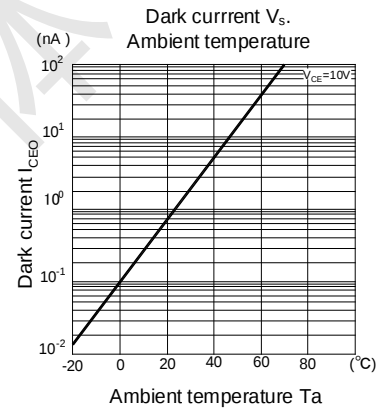
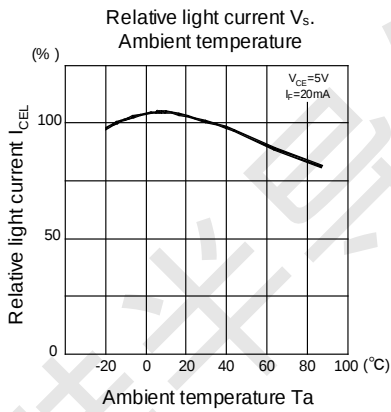
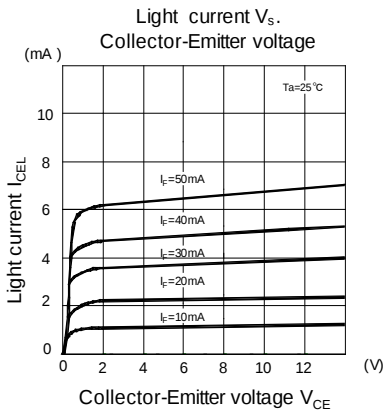
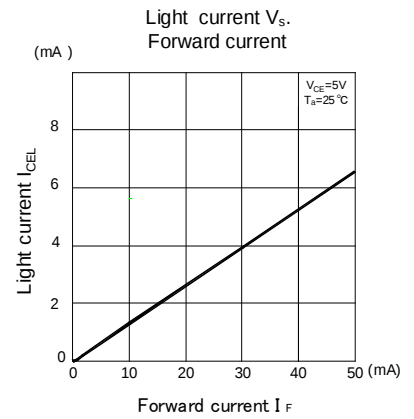
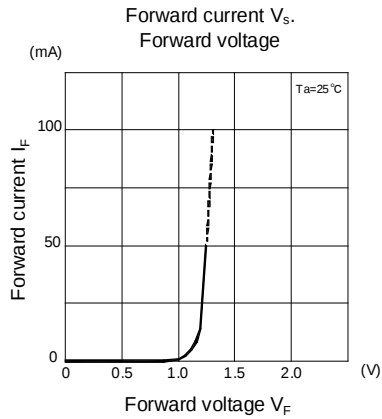
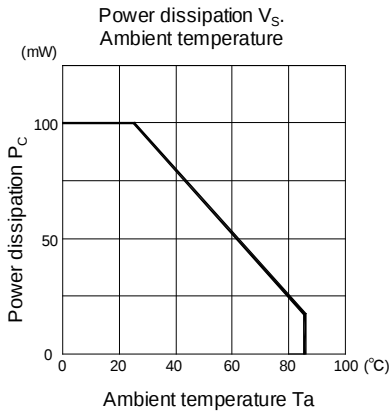
Electro-Optical Characteristics

(Ta=25°C)

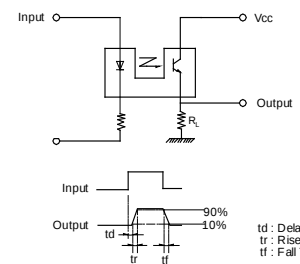
Item		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20mA$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5V$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20mA$	-	940	-	nm
Output	Collector dark current	I_{CEO}	$V_{CE}=10V, E_V=0lx$	-	1	100	nA
Transmission	Light current	I_C	$V_{CE}=5V, I_F=20mA, \text{Non-shading}$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

The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product,

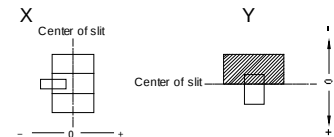
would you please refer to the latest specifications.



*1 Switching time measurement circuit



*2 Method of measuring position detection characteristic



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.

