

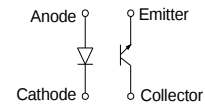
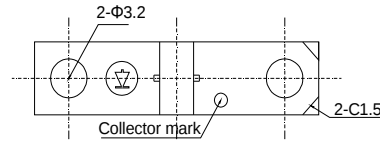
SIT303

Photo Interrupter

DIMENSIONS

Unit:mm

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



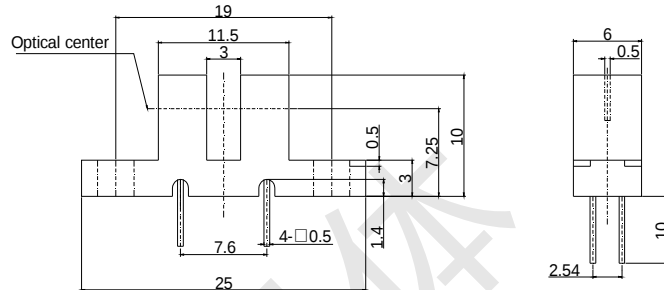
Top View

Features

- PCB direct mount type
- GAP:3.0mm
- Double-sided screw-mount
- RoHS Compliance

Applications

- Printers
- Facsimiles
- Auto stampers
- Ticket vending machines

* General Tolerance($\pm 0.2\text{mm}$)

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_{PF}	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		Topr.	-20~+85	°C
Storage temperature		Tstg.	-30~+85	°C
Soldering temperature ^{*2}		Tsol.	260	°C

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

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

Electro-Optical Characteristics

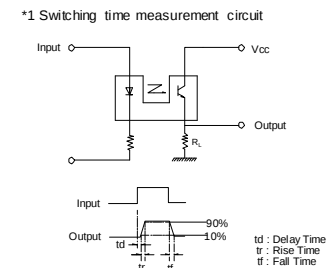
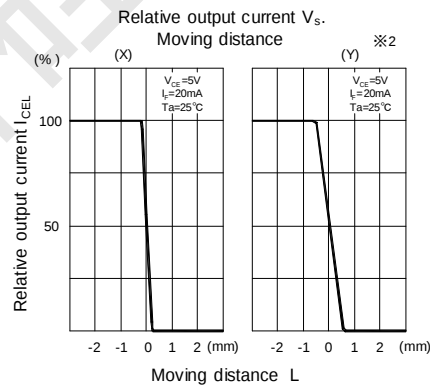
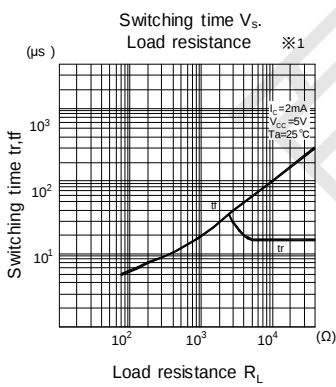
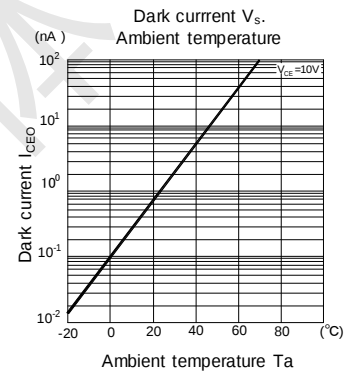
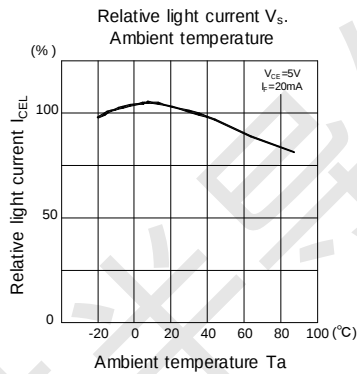
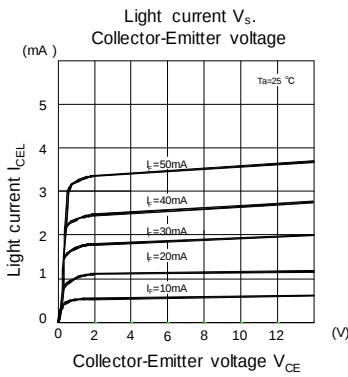
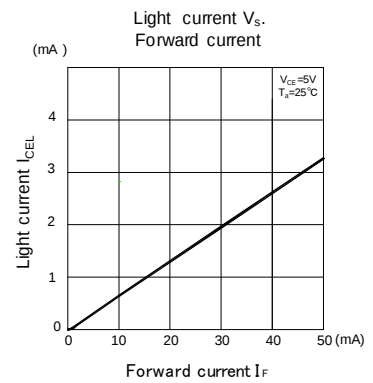
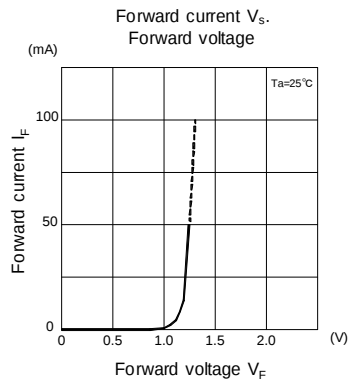
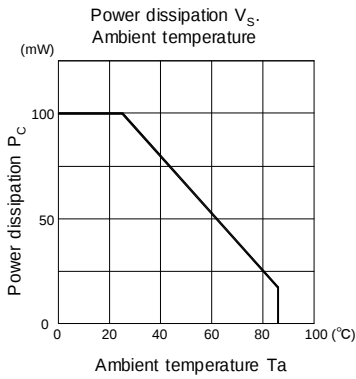
(Ta=25°C)

Item		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	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}	$V_{CE}=10\text{V}, E_V=0\text{lX}$	-	-	100	nA
Transfer characteristics	Light current	I_C	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Non-shading}$	0.3	-	-	mA
	Leak current	I_{CEOD}	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Shading}$	-	0.5	10	μA
	C-E saturation voltage	$V_{CE}(\text{sat})$	$I_F=20\text{mA}, I_C=0.1\text{mA}$	-	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

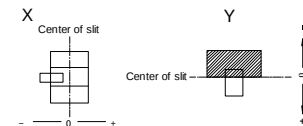
The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

Photo Interrupter

SIT303



*2 Method of measuring position detection characteristic



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.

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 slip is pasted on #3 box.

