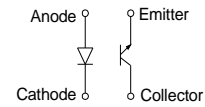
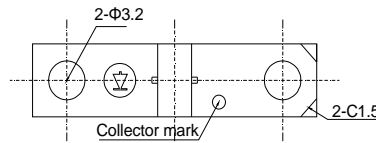


SIT303 Photo Interrupter

DIMENSIONS

Unit:mm

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



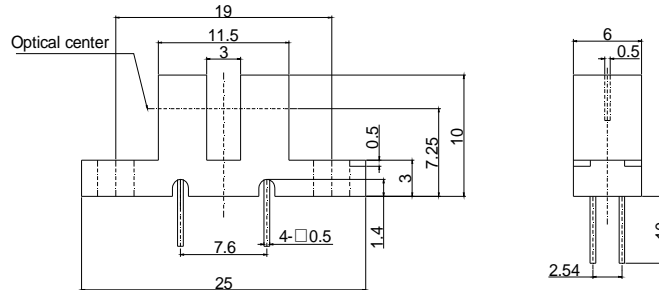
Top View

Features

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

Applications

- Printers
- Facsimiles
- Auto stampers
- Ticket vending machines



* General Tolerance(±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_{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:tw≤100μs period:T=10ms

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

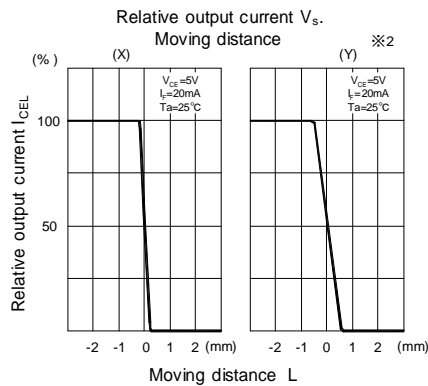
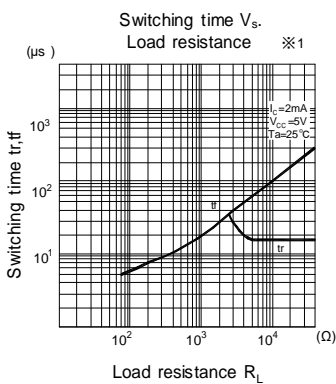
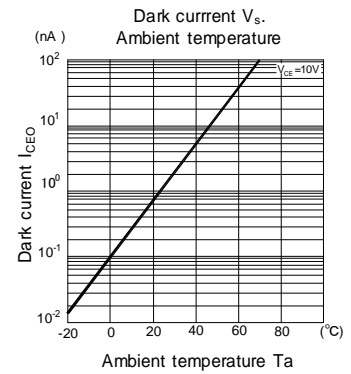
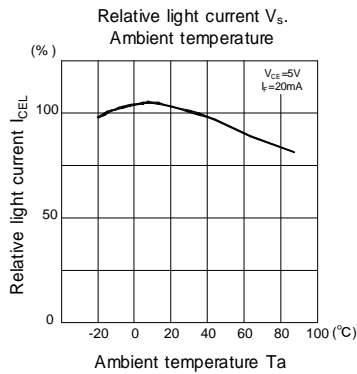
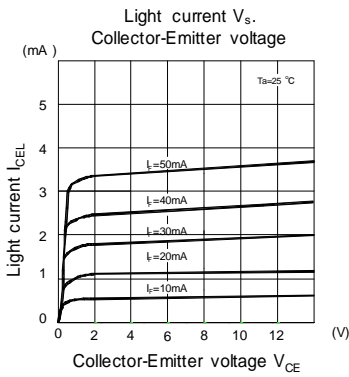
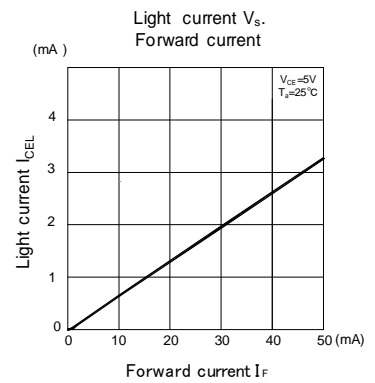
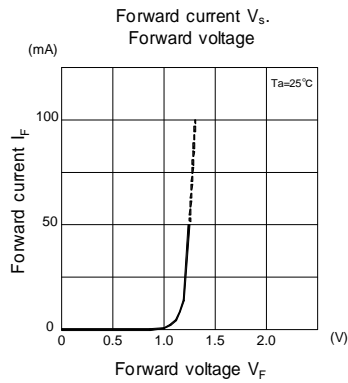
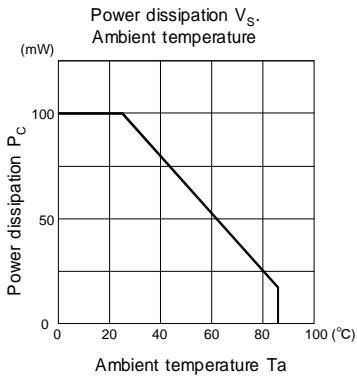
Electro-Optical Characteristics

(Ta=25°C)

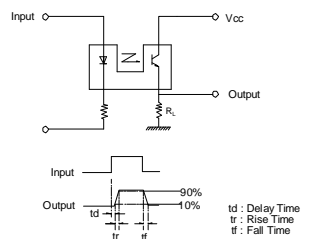
Item		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20mA$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5V$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20mA$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10V, E_V=0lx$	-	-	100	nA
Transfer characteristics	Light current	I_C	$I_F=20mA, V_{CE}=5V, Non-shading$	0.3	-	-	mA
	Leak current	$I_{CEO D}$	$I_F=20mA, V_{CE}=5V, Shading$	-	0.5	10	μA
	C-E saturation voltage	$V_{CE} (sat)$	$I_F=20mA, I_C=0.1mA$	-	0.15	0.4	V
	Rise time	tr	$I_C=2mA, V_{CC}=5V, R_L=100\Omega$	-	4	-	μs
	Fall time	tf		-	5	-	μs

Photo Interrupter

SIT303



*1 Switching time measurement circuit



*2 Method of measuring position detection characteristic

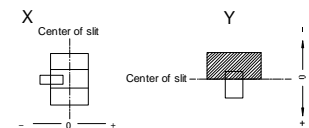


Photo Interrupter

SIT303

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.

