

SIT306 Photo Interrupter

The SIT306 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

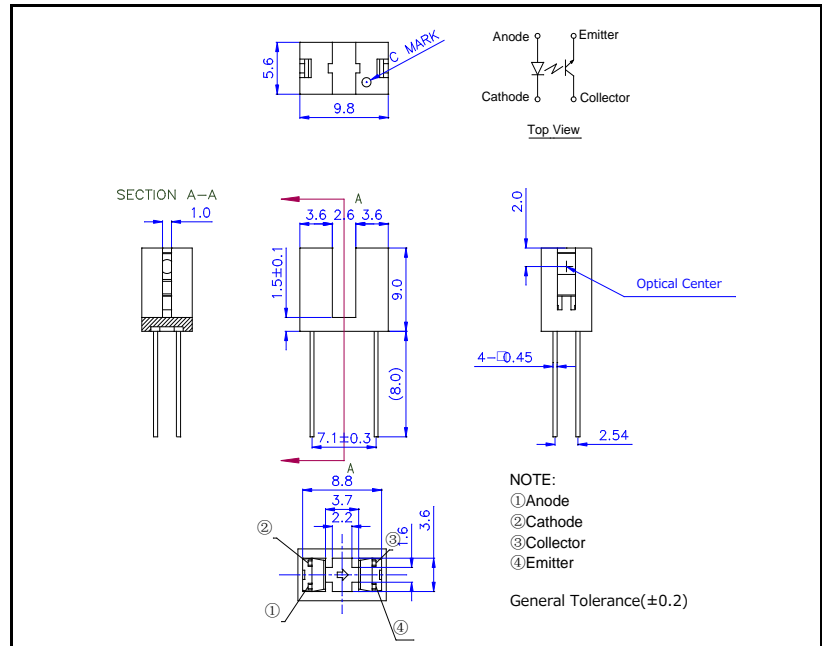
- PCB direct mount type
- GAP:2.6mm
- RoHS Compliance

Applications

- Printers
- Faxes
- Scanners

Dimensions

Unit:mm



Absolute Maximum Ratings

(Ta=25°C)

Characteristic		Symbol	Ratings	Unit
Input	Power dissipation	P_D	75	mW
	Forward current	I_F	50	mA
	Reverse voltage	V_R	6	V
	Pulse forward current *1	I_{FP}	1	A
Output	Collector current	I_C	20	mA
	Collector-Emitter voltage	V_{CEO}	35	V
	Emitter-Collector voltage	V_{ECO}	6	V
Operating temperature *2		Topr.	-30~+95	°C
Storage temperature *2		Tstg.	-40~+100	°C

* 1.Pulse width:tw≤100μs period=10msec

* 2.No icebound or dew

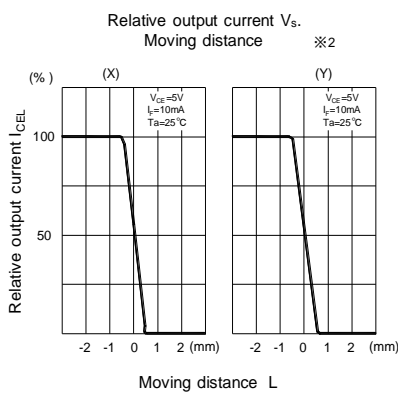
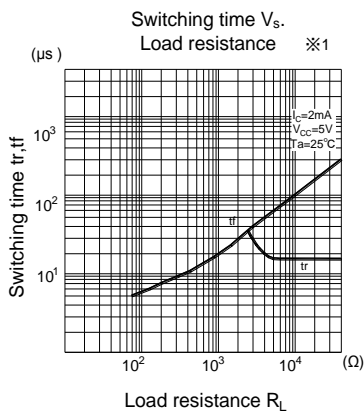
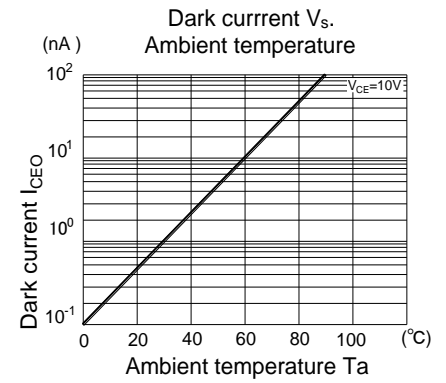
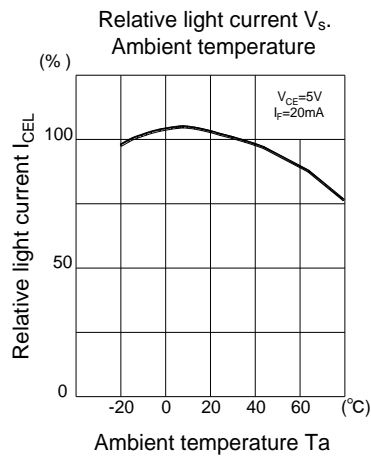
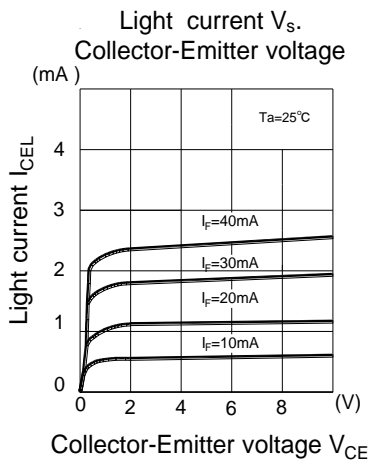
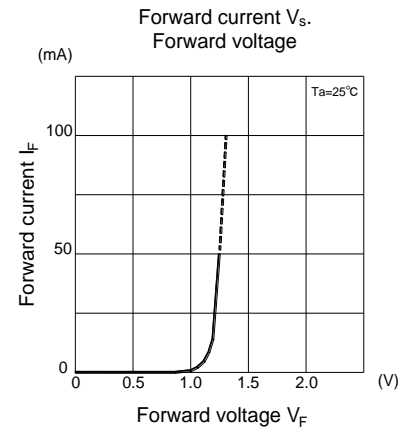
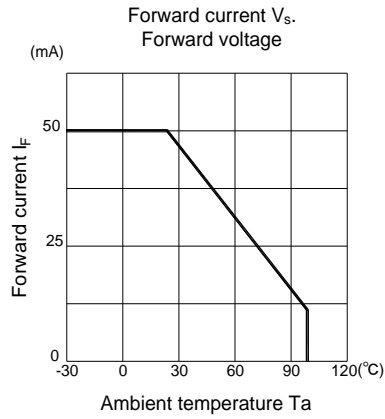
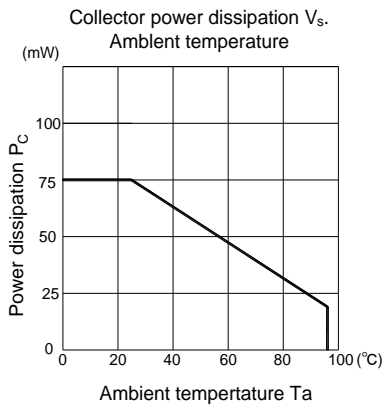
Electro-Optical Characteristics

(Ta=25°C)

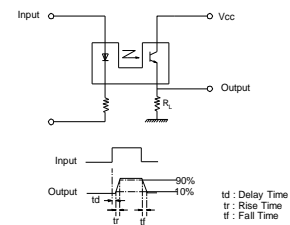
Characteristic		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20mA$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5V$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20mA$	-	940	-	nm
Output	Collector dark current	I_{CEO}	$V_{CE}=10V, E_V=0lx$	-	1	100	nA
	Peak wavelength	λ_P	-	-	880	-	nm
Transfer Characteristics	Collector current	I_C	$V_{CE}=5V, I_F=10mA$	1	-	15	mA
	C-E saturation voltage	$V_{CE} (sat)$	$I_F=20mA, I_C=0.5mA$	-	-	0.4	V
Response Time	Rise time	tr	$V_{CC}=5V, I_C=2mA, R_L=100\Omega$	-	3	15	μs
	Fall time	tf		-	4	20	μs

Photo Interrupter

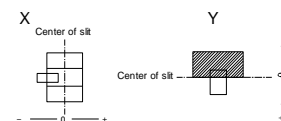
SIT306



*1 Switching time measurement circuit



*2 Method of measuring position detection characteristic



SIT306

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.

