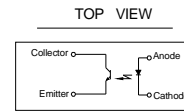
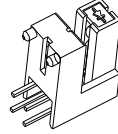


# SIT206F Photo Interrupter

The SIT206F is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

### Dimensions



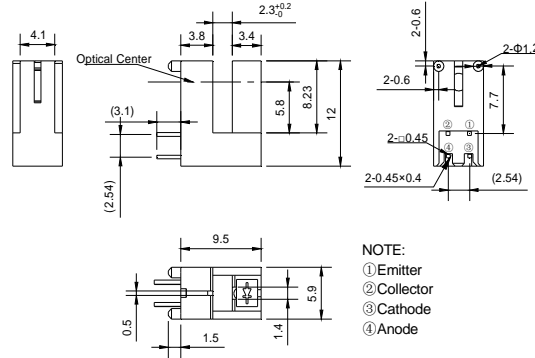
(Unit: mm)

### Features

- PCB direct mount type
- GAP:2.3mm
- With the installation positioning boss
- RoHS Compliance

### Applications

- Printers
- Scanners
- CD changers
- Encoders



### Maximum Ratings

Item		Symbol	Rating	Unit
Input	Power dissipation	$P_D$	100	mW
	Forward current	$I_F$	50	mA
	Reverse voltage	$V_R$	5	V
Output	Collector power dissipation	$P_C$	75	mW
	Collector current	$I_C$	20	mA
	Collector-Emitter voltage	$V_{CEO}$	30	V
	Emitter-Collector voltage	$V_{ECO}$	5	V
Operating temperature		Topr.	-20 ~ +85	°C
Storage temperature <sup>*1</sup>		Tstg.	-30 ~ +85	°C
Soldering temperature <sup>*2</sup>		Tsol.	260	°C

\*1. No icebound or dew.

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

### Electro-Optical Characteristics

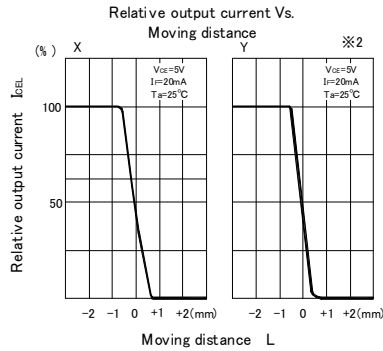
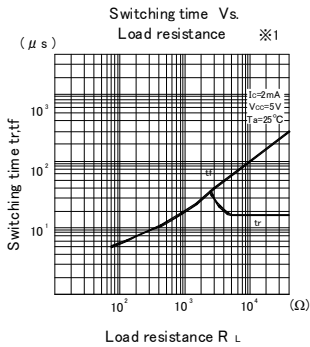
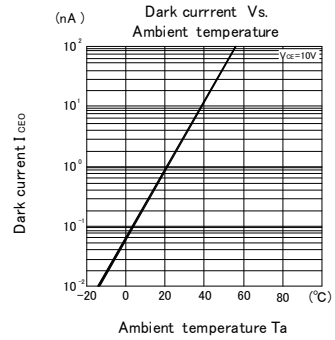
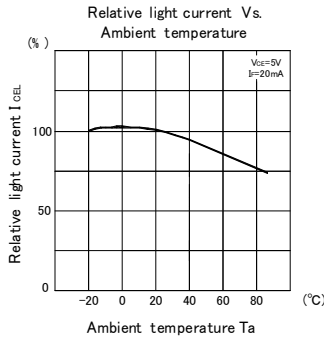
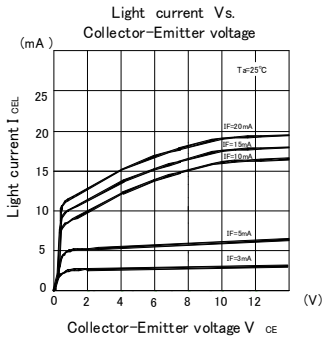
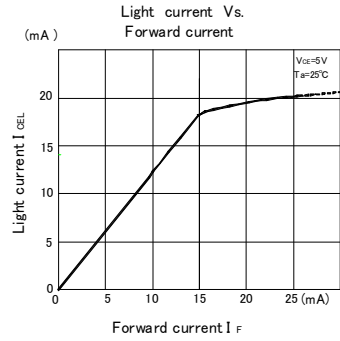
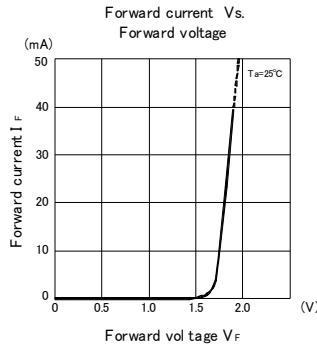
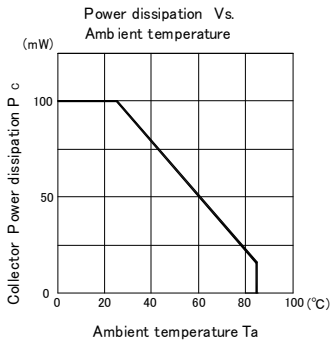
(Ta=25°C)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	$V_F$	$I_F=20mA$	-	1.2	2.0	V
	Reverse current	$I_R$	$V_R=5V$	-	-	100	μA
	Peak wavelength	$\lambda_P$	$I_F=20mA$	-	940	-	nm
Output	Dark current	$I_{CEO}$	$V_{CE}=10V E_V=0 lx$	-	-	1	μA
	Peak SENS.Wavelength	$\lambda_P$	-	-	880	-	nm
Transfer characteristics	Light current	$I_{CEL}$	$I_F=5mA V_{CE}=5V$ 入光状态 (Non-Shading)	0.5	-	15	mA
	Leak current	$I_{CEOD}$	$I_F=5mA V_{CE}=5V$ 遮光状态 (Shading)	-	0.5	10	μA
	C-E sat.voltage	$V_{CE(sat)}$	$I_F=20mA I_C=0.05mA$	-	-	0.4	V
	Rise time	tr	$V_{CC}=5V, I_C=2mA, R_L= 100\Omega$	-	4	-	μs
	Fall time	tf		-	5	-	μs

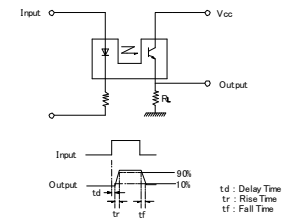
The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

# Photo Interrupter

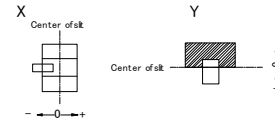
## SIT206F



\*1 Switching time measurement circuit



\*2 Method of measuring position detection characteristic



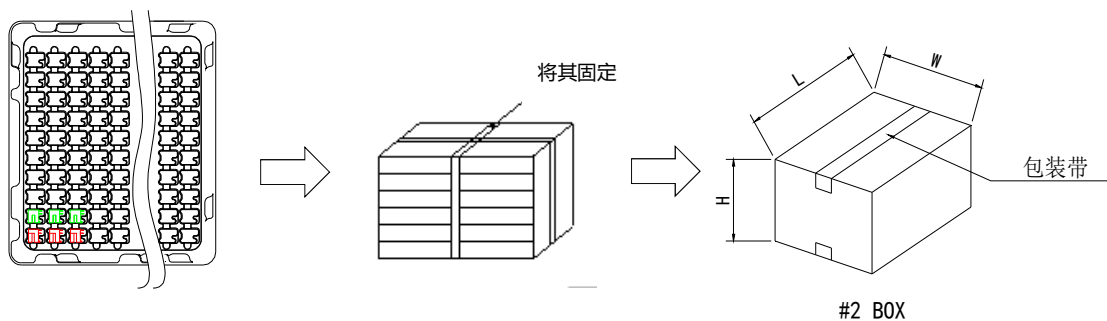
The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

## Photo Interrupter

# SIT206F

### Packing Specification

- 1.Fixed quantity (max 150pcs) of the products are packed into a tray
- 2.Up to twenty-five trays stack together and should be fixed
3. The fixed trays are put into #2 Box(max 3.6Kpcs )
4. Two #2 Boxes are put into #3 Box(max 7.2Kpcs )
- 5.Paste packing slip



SIT206F (max 150pcs)

