

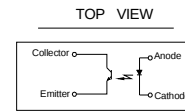
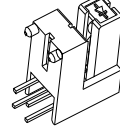
SIT206F

Photo Interrupter

Dimensions

(Unit: mm)

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

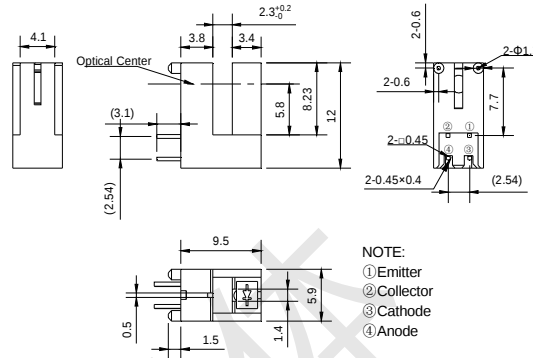


Features

- 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 *1		Tstg.	-30 ~ +85	°C
Soldering temperature *2		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

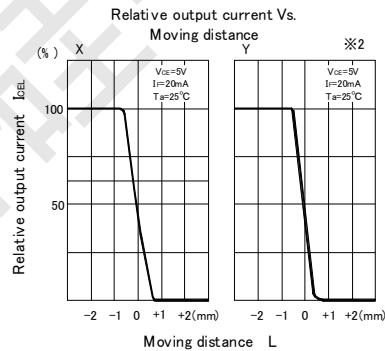
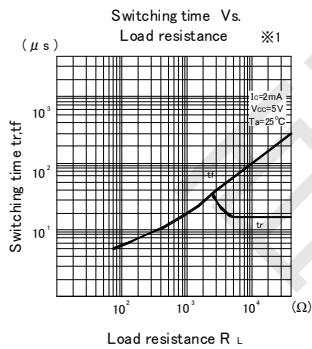
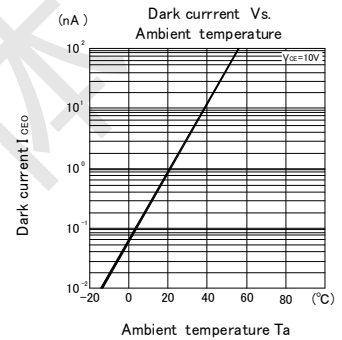
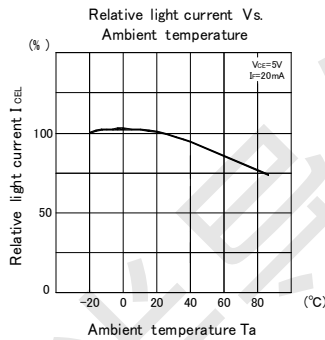
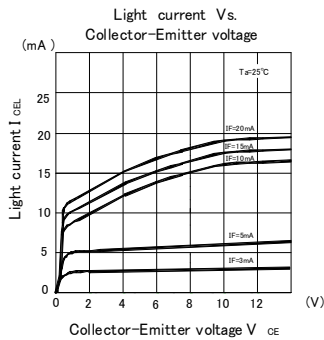
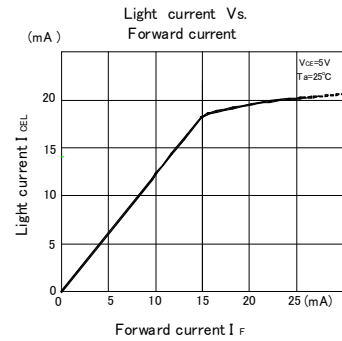
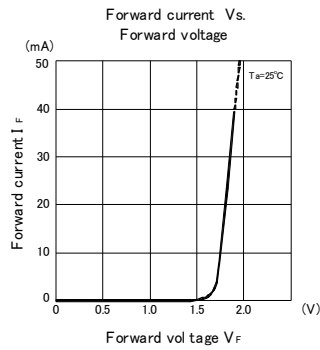
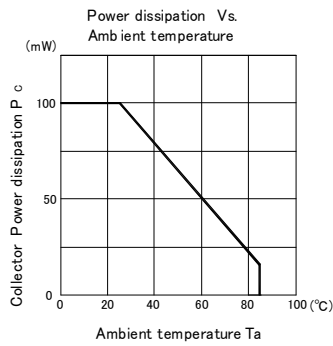
(Ta=25°C)

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

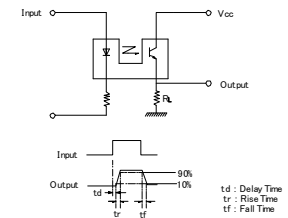
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Photo Interrupter

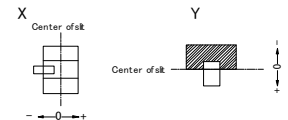
SIT206F



*1 Switching time measurement circuit



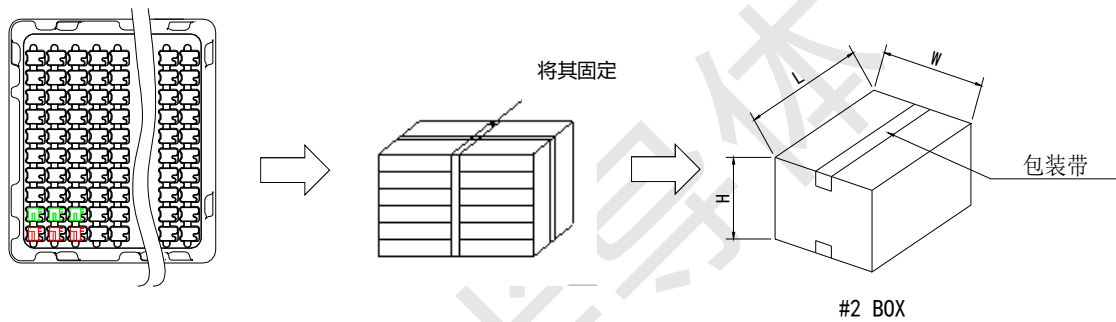
*2 Method of measuring position detection characteristic



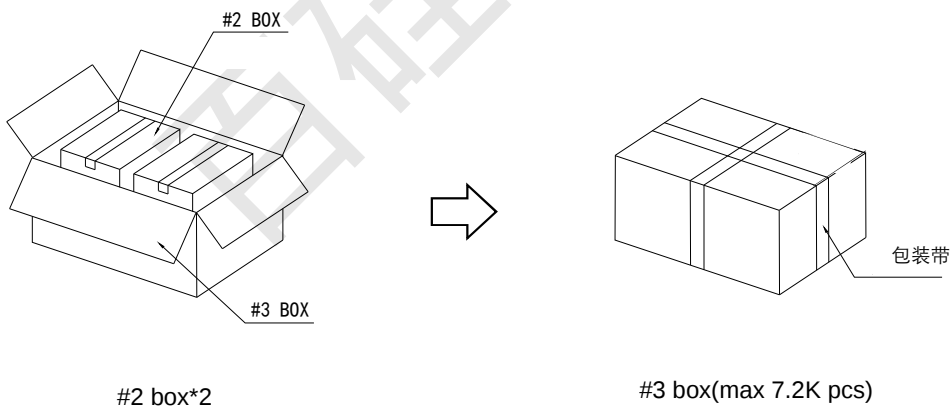
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Packing Specification

- 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)



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