

NEW PRODUCT



SIT401P

Photo Interrupter

The SIT401P is photointerrupter with high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

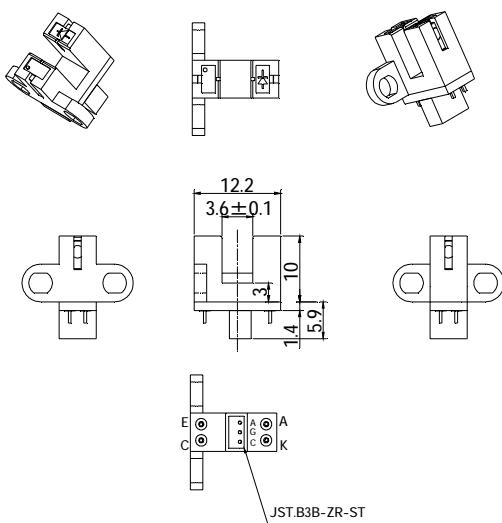
- GAP:3.6 mm
- Double-sided screw-mount

Applications

- Facsimiles
- Printers
- Auto stampers
- Ticket vending machines

Dimensions

(Unit: mm)



General Tolerance (± 0.2)

Maximum Ratings

(Ta=25°C)

Item	Symbol	Rating	Unit
Input	P _D	100	mW
	I _F	60	mA
	V _R	5	V
	I _{FP}	1	A
Output	P _C	100	mW
	I _C	40	mA
	V _{CEO}	30	V
	V _{ECD}	5	V
Operating temperature	Topr.	-20 ~ +85	°C
Storage temperature ^{*2}	Tstg.	-30 ~ +85	°C
Soldering temperature ^{*3}	Tsol.	260	°C

*1 pulse width: t_w ≤ 100μs period:T=10ms

*2 No icebound or dew. *3. For MAX.5 seconds at the position of 1mm from the package

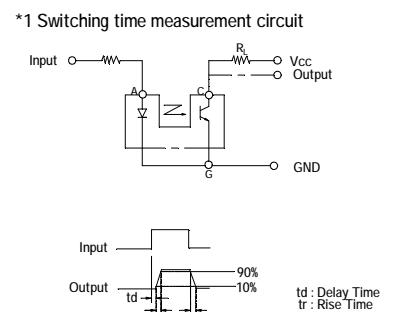
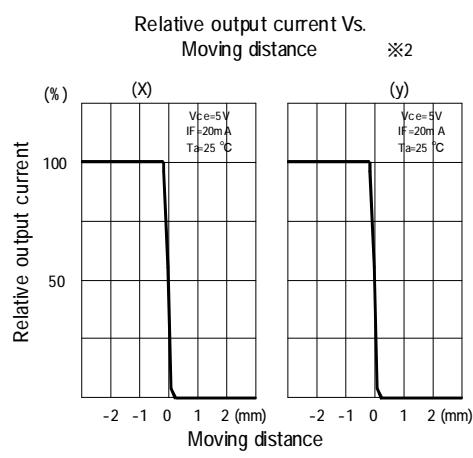
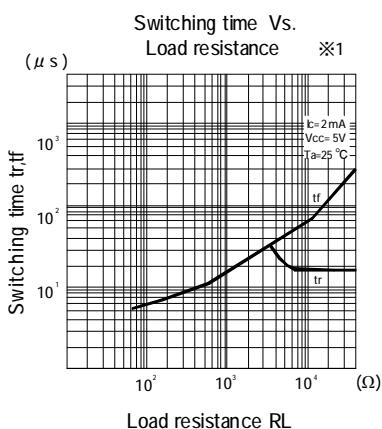
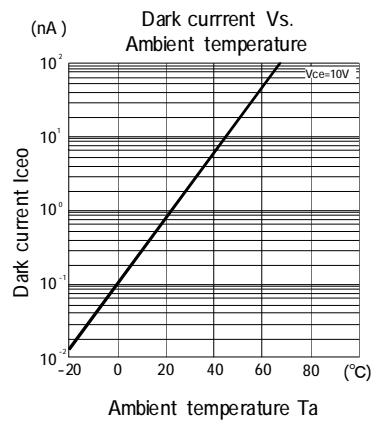
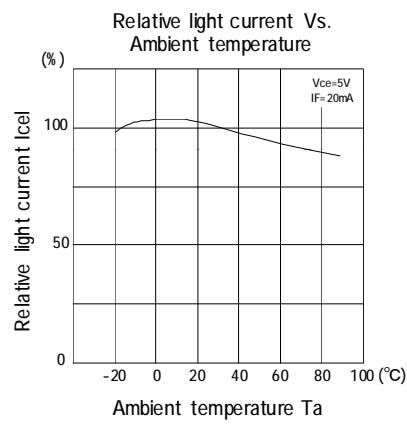
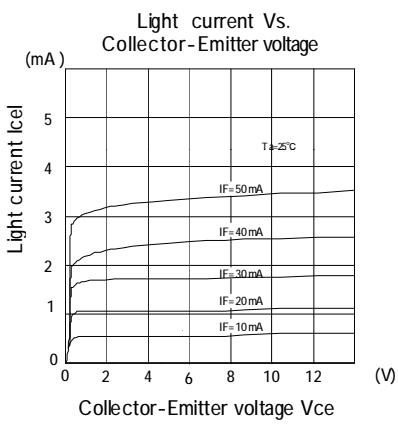
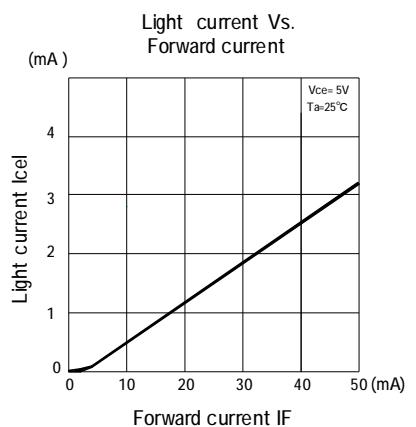
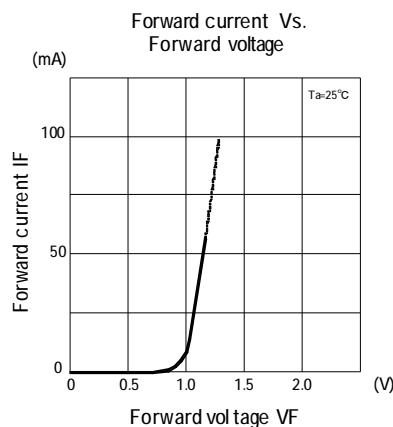
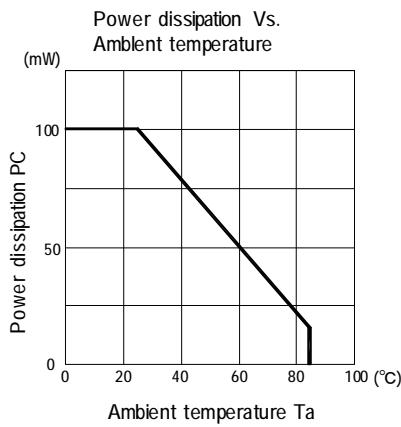
Electro-Optical Characteristics

(Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	V _F	I _F =20mA	-	1.2	1.4	V
	I _R	V _R =5V	-	-	10	μA
	λ _p	I _F =20mA	-	940	-	nm
Output	I _{CEO}	V _{CE} =10V Ev=0 lx	-	1	100	nA
Transfer characteristics	I _C	I _F =20mA, V _{CE} =5V (Non-shading)	0.5	-	10	mA
	I _{CEO}	I _F =20mA, V _{CE} =5V (shading)	-	0.5	10	μA
	V _{CE(sat)}	I _F =20mA I _C =0.2mA	-	0.15	0.4	V
Rise time	tr	V _{CC} =5V, I _C =2mA, R _L =100Ω	-	4	-	μsec.
Fall time	tf		-	5	-	μsec.

Photo Interrupter(Transmissive)

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*2 Method of measuring position detection characteristic

