

SIT207

Photo Interrupter

The SIT207 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

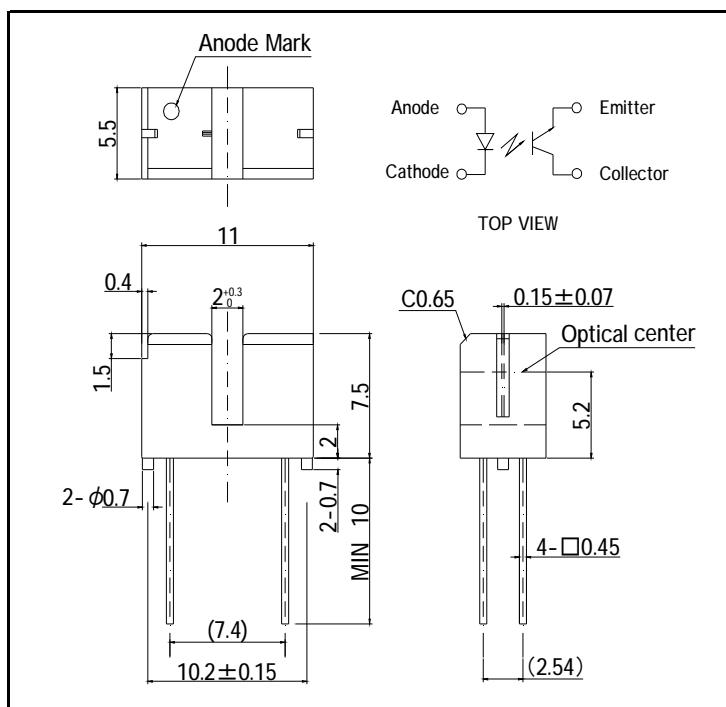
- PCB direct mount type
- GAP:2.0mm
- With the installation positioning boss
- High resolution(slit 0.15mm)

Application

- Printers
- Encoders
- Scanners
- Electronic measurement machine

DIMENSIONS

Unit:mm



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
Output	Collector power dissipation	P _C	100	mW
	Collector current	I _C	40	mA
	Collector-Emiter voltage	V _{CEO}	30	V
	Emiter-Collector voltage	V _{ECO}	5	V
	Operating temperature	Topr.	-20~+85	°C
Storage tempertature		Tstg.	-30~+85	°C
Soldering tempertature * ¹		Tsol.	260	°C

* 1 The soldering should be 1mm away from bottom of the holder. t=within 5s

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	-	1	100	nA
Transfer characteristics	Light current	I _C	I _F =20mA, V _{CE} =5V, Non-shading	0.4	-	10	mA
	Leak current	I _{CEOD}	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 =100KΩ	-	4	-	µs
	Fall time	tf		-	5	-	µs

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