

Photointerrupters(Transmissive) OPI-33BG/BI/BH/BT(SG23FF)



photointerrupters high- performance standard type, combine high- output GaAs IRED with high sensitive phototransistor.

FEATURES

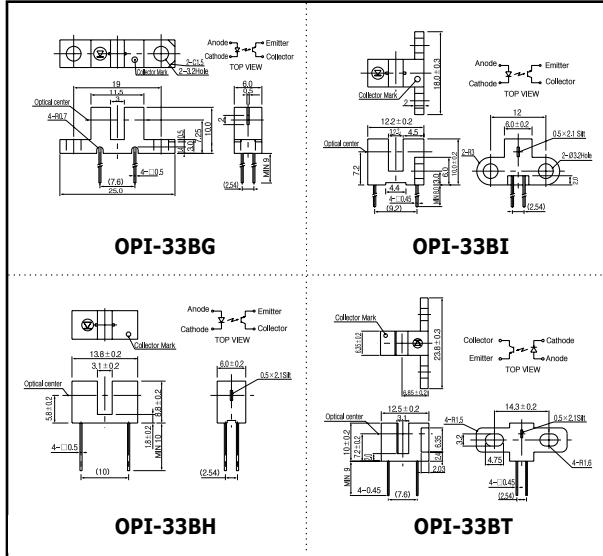
- 0.5mm aperture
- High- speed response
- Easy to mount on P.C.B.
- Widely applicable

APPLICATIONS

- Tape- end sensors
- Timing sensors
- Edge sensors
- Copiers

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25°C)

	Item	Symbol	Rating	Unit
Input	Power dissipation	P _D	100	mW
	Reverse voltage	V _R	5	V
	Forward current	I _F	60	mA
	Pulse forward current ¹⁾	I _{FP}	1	A
Output	Collector power dissipation	P _C	100	mW
	Collector current	I _C	40	mA
	C- E voltage	V _{CEO}	30	V
	E- C voltage	V _{ECO}	5	V
	Operating temp.	To _{pr}	- 20 ~ +85	°C
	Storage temp.	T _{stg}	- 30 ~ +85	°C
	Soldering temp. ²⁾	T _{sol}	240	°C

*1. t_w ≤ 100 μsec. period : T = 10 msec.

*2. For MAX. 5 seconds at the position of 2mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

	Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	V _F	I _F =30mA		1.2	1.5	V
	Reverse current	I _R	V _R =5V			10	μA
	Capacitance	C _t	V=0, f=1KHz		25		pF
	Peak wavelength	λ _p			940		nm
Output	Collector dark current	I _{CEO}	V _{CE} =10V			0.1	μA
	Light current	I _L	V _{CE} =5V, I _F =20mA	0.3			mA
	C- E saturation voltage	V _{CE(sat)}	I _F =30mA, I _C =0.1mA			0.4	V
Switching speeds	Rise time	tr	V _{CC} =5V, I _C =2mA		5		μSec.
	Fall time	tf	R=100Ω		5		μSec.

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