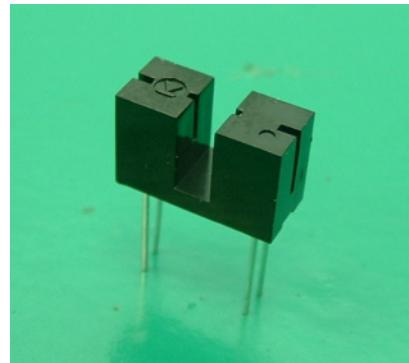




PHOTO INTERRUPTER (Transmission)

General Description

The FI-23FI is Photo-Interrupter high-performance standard type. combines high-output GaAs IRED with high sensitive Photo-transistor.



Features

- PWB direct mount type
- GAP:3.1mm
- Meet RoHS

Applications

- Facsimiles
- Printers
- Scanner

MAXIMUM RATINGS

(Ta=25°C)

Item		Symbol	Rating	Unit
Input	Power dissipation	P _D	100	mW
	Forward current	I _F	60	mA
	Reverse voltage	V _R	5	V
	Pulse forward current *1	I _{FP}	1	A
Output	Collector power dissipation	P _C	100	mW
	Collector current	I _C	40	mA
	Collector-Emitter voltage	V _{C EO}	30	V
	Emitter-Collector voltage	V _{E CO}	5	V
Operating temp.		T _{opr.}	-20 ~ +85	°C
Storage temp.		T _{stg.}	-30 ~ +85	°C
Soldering temp. *2		T _{sol.}	260	°C

*1. pulse width : t_w ≤ 100usec. Period : t = 10msec

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V _F	I _F =20mA	-	1.2	1.5	V
	Reverse current	I _R	V _R =5V	-	-	10	uA
	Peak wavelength	λ _p	I _F =20mA	-	940	-	nm
Output	Collector dark current	I _{C EO}	V _{C E} =10V	-	1	100	nA
Transmission	Light current	I _C	I _F =20mA, V _{C E} =5V (Non-shading)	0.3	-	-	mA
	C-E saturation voltage	V _{C E} (sat)	I _F =20mA, I _C =0.1mA	-	-	0.4	V
Switching Speeds	Rise time	t _r	V _{CC} =5V, I _C =2mA R _L =100Ω	-	4	-	usec
	Fall time	t _f		-	5	-	usec



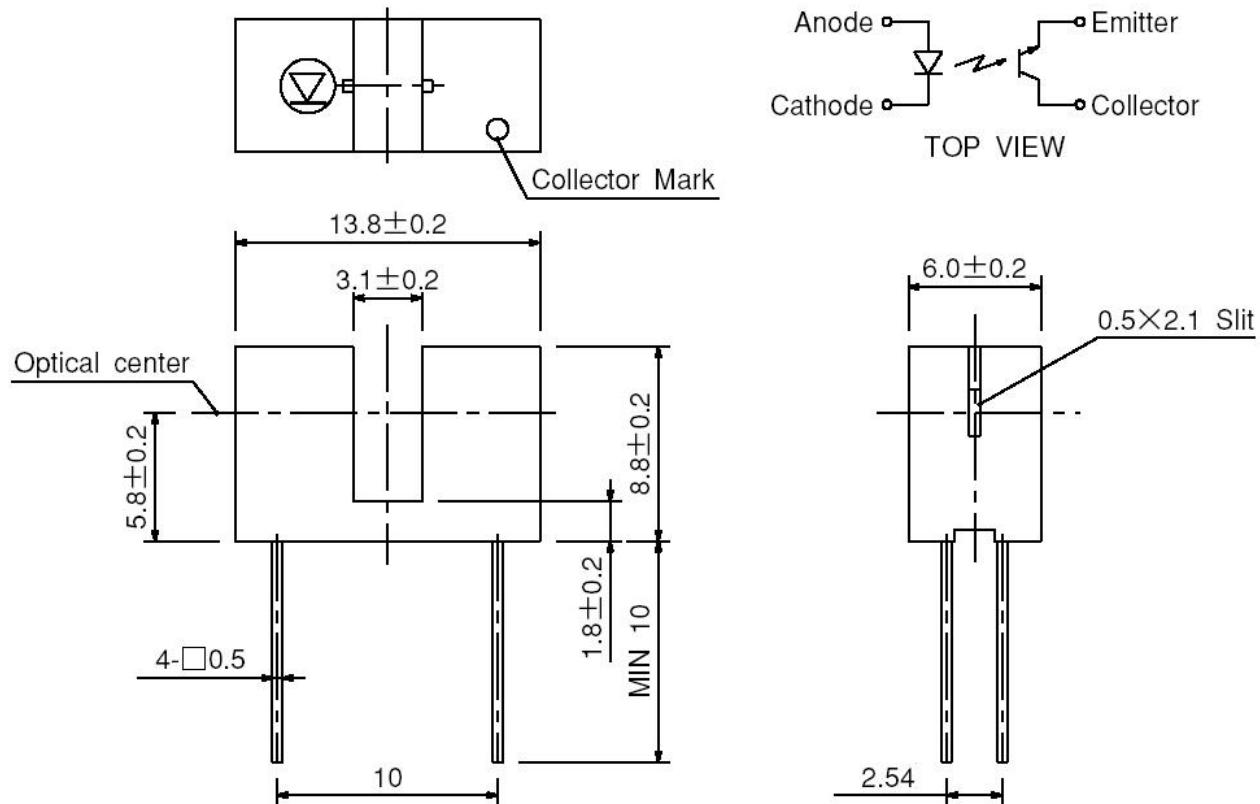
OPTO-SENSOR

FI-23FI

RoHS
COMPLIANT

Pb-Free

DIMEMSIONS



NOTES :

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.25\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

APPLICATION CIRCUIT

