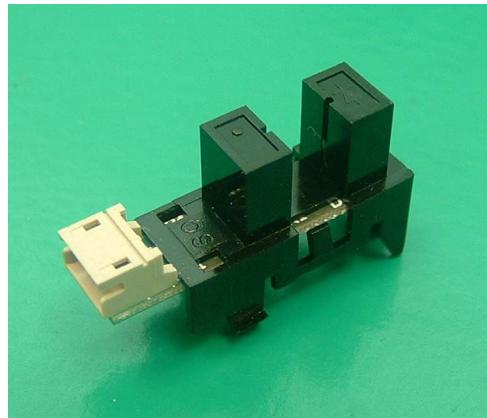


PHOTO INTERRUPTER (Transmission)

General Description

The FI-248S Photo-Interrupter is high-performance standard type. combines high-output GaAs IRED with high sensitive Photo-transistor.



Features

- GAP: 5.0mm
- Snap-in mount
- Meet RoHS

Applications

- Copiers
- Printers
- ATM
- Ticket vending machines

Header Type

- 1.5mm Pitch
- 3 Pin
- Right angle

MAXIMUM RATINGS

(Ta=25°C)

Item		Symbol	Rating	Unit
Input	Power dissipation	PD	100	mW
	Forward current	IF	60	mA
	Reverse voltage	VR	5	V
	Pulse forward current *1	IFP	1	A
Output	Collector power dissipation	Pc	100	mW
	Collector current	Ic	40	mA
	Collector-Emitter voltage	VCEO	30	V
	Emitter-Collector voltage	VECO	5	V
Operating temp.		Topr.	-20 ~ +85	°C
Storage temp.		Tstg.	-30 ~ +85	°C
Soldering temp. *2		Tsol.	260	°C

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

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

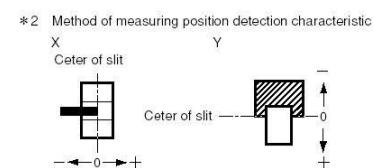
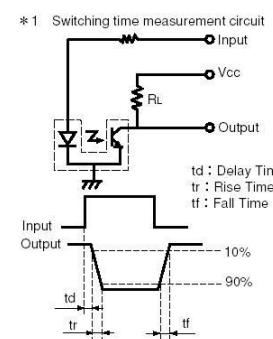
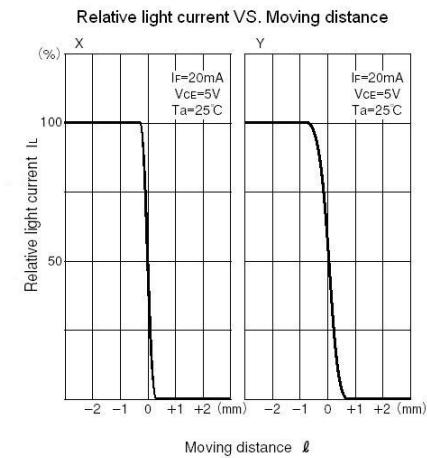
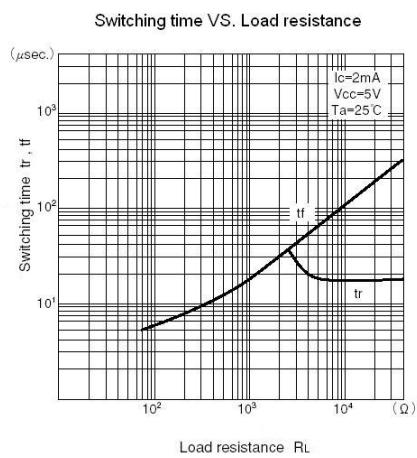
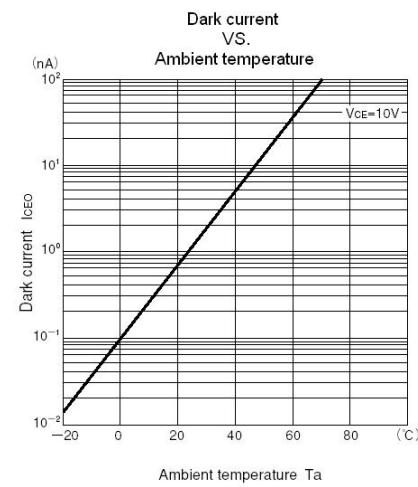
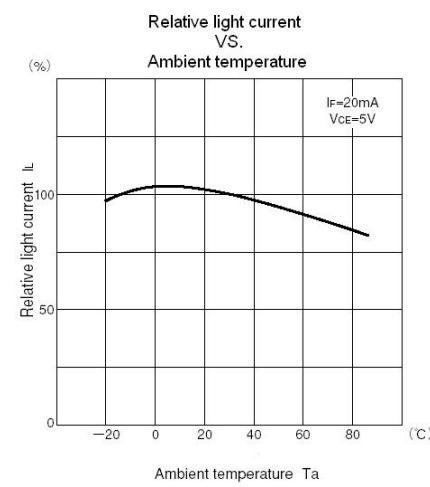
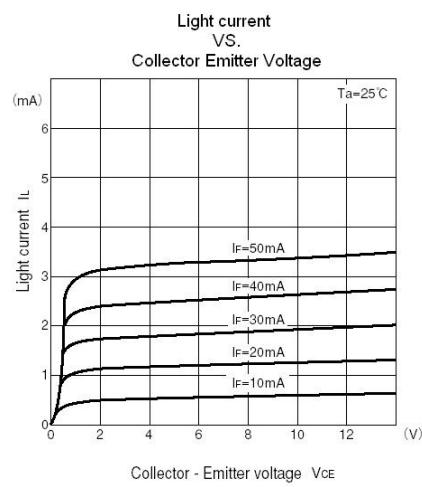
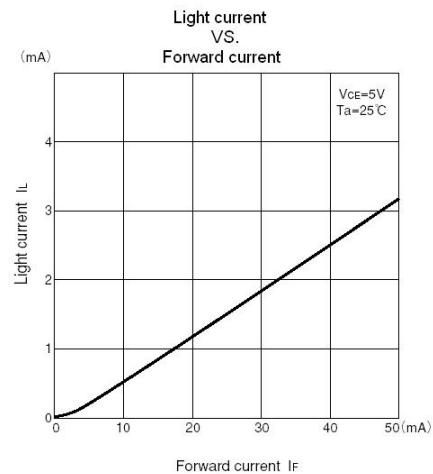
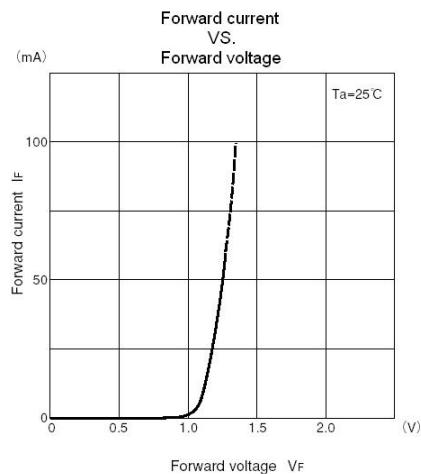
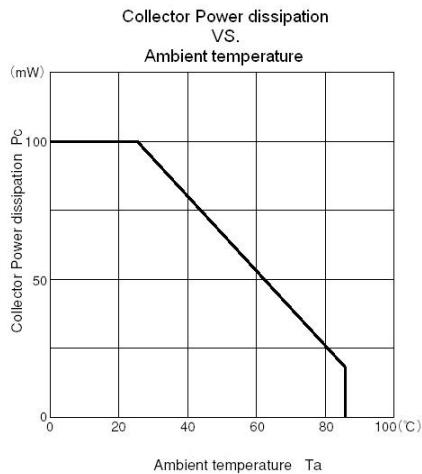
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	VF	IF=20mA	-	1.2	1.4	V
	Reverse current	IR	VR=5V	-	-	10	uA
	Peak wavelength	λp	IF=20mA	-	940	-	nm
Output	Collector dark current	ICEO	VCE=10V	-	1	100	nA
Transmission	Light current	Ic	IF=20mA, VCE=5V (Non-shading)	0.3	-	3.5	mA
	Leakage current	ICEOD	IF=20mA, VCE=5V (Shading)	-	-	20	uA
	C-E saturation voltage	VCE(sat)	IF=20mA, Ic=0.1mA	-	0.15	0.4	V
Switching Speeds	Rise time	tr	Vcc=5V, Ic=2mA RL=100Ω	-	4	-	usec
	Fall time	tf		-	5	-	usec



OPTO-SENSOR

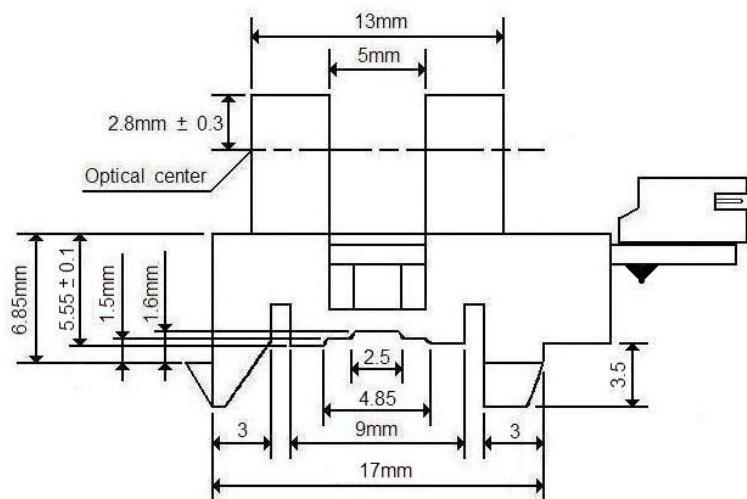
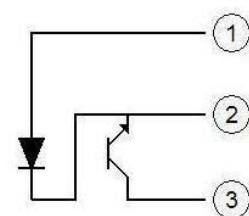
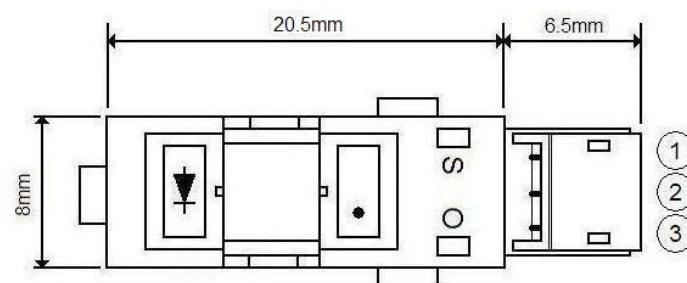
FI-248S

**RoHS
COMPLIANT**





DIMENSIONS



NOTES :

1. All dimensions are in millimeters.
2. Tolerance is ±0.25mm unless otherwise specified.
3. Specifications are subject to change without notice.