



Reflective Interrupter

MODEL NO : _____ ITR9907 _____

■ Features :

- Fast response time
- High analytic
- High sensitivity
- Small package

■ Description :

The **ITR9907** consists of an infrared emitting diode and a silicon phototransistor , encased in a black Thermo-plastic housing. The advantage of the device is the small package. phototransistor receives radiation from the IRED only, and avoids the noise from ambient light.

■ Applications :

- Camera
- Copier
- Scanner
- Non-contact Switching
- For Direct PC Board

PART NO.	CHIP	LENS COLOR
	MATERIAL	
IR	GaAIAs	Clear
PT	Silicon	Black



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■ Typical Electrical/Optical/Characteristics Curves For IR

Fig. 1 Forward Current vs. Ambient Temperature

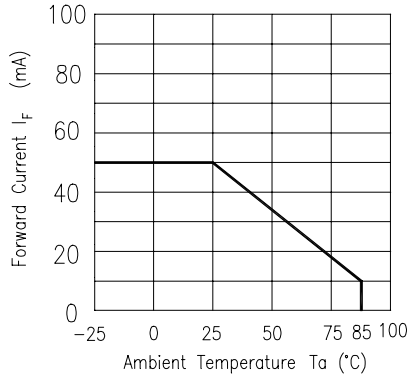


Fig. 2 Spectral Distribution

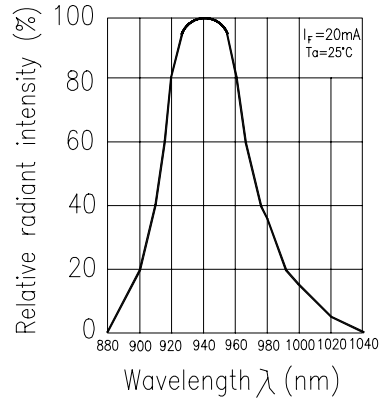


Fig. 3 Peak Emission Wavelength vs. Ambient Temperature

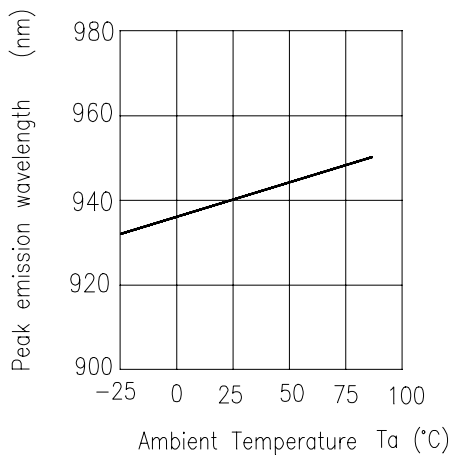


Fig. 4 Forward Current vs. Forward Voltage

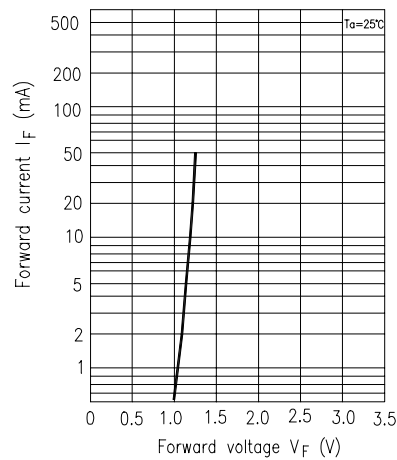
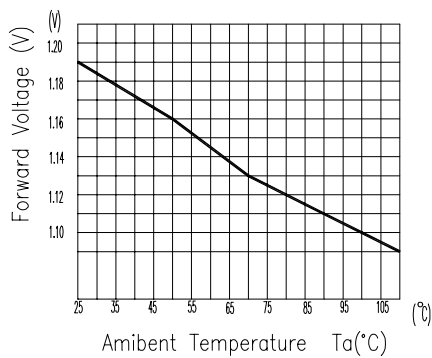


Fig. 5 Forward Voltage vs. Ambient Temperature

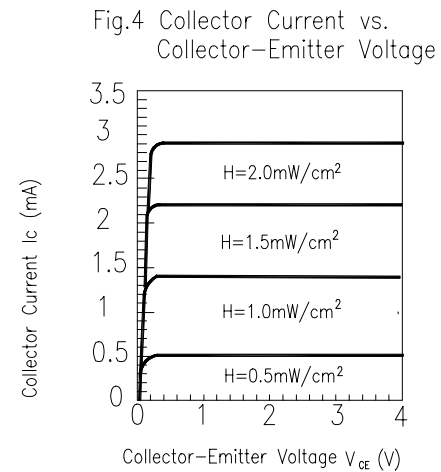
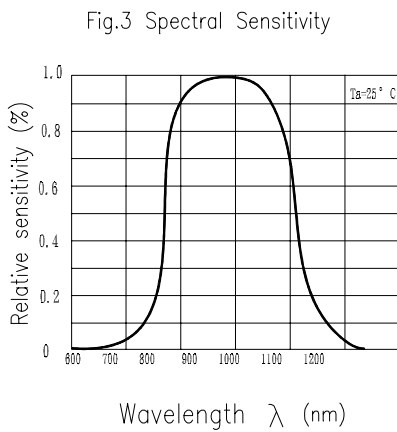
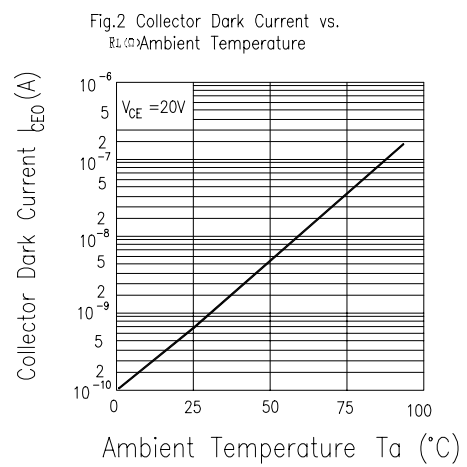
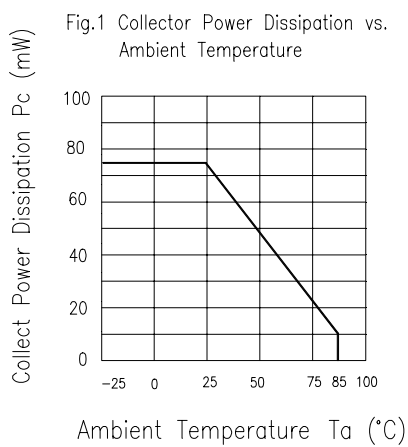




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■ Typical Electrical/Optical/Characteristics Curves For PT





EVERLIGHT ELECTRONICS CO., LTD.

DEVICE NUMBER : DRX-907-112
ECN : _____

REV : 1.0
PAGE : 6/6

Photointerrupter

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■ Reliability Test Item And Condition

The reliability of products shall be satisfied with items listed below.

Confidence level:90%

LTPD:10%

NO.	Item	Test Conditions	Test Hours/ Cycle	Sample Size	Failure Judgement Criteria	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 sec	22 PCs	$I_{c(on)} \leq L \times 0.8$ L : Lower specification limit	0/1
2	Temperature Cycle	H : +85°C 30 min ↑ 5 min ↓ L : -55°C 30 min	50 cycle	22 PCs		0/1
3	Thermal Shock	H : +100°C 5 min ↑ 10 sec ↓ L : -10°C 30 min	50 cycle	22 PCs		0/1
4	High Temperature Storage	TEMP. : +100°C	1000 hrs	22 PCs		0/1
5	Low Temperature Storage	TEMP. : -55°C	1000 hrs	22 PCs		0/1
6	DC Operating Life	$V_{CE}=5V$	1000 hrs	22 PCs		0/1
7	High Temperature / High Humidity	85°C / 85% R.H.	1000 hrs	22 PCs		0/1