



Technical Data Sheet

1.5mm Side Looking Phototransistor

PT908-7C-F

Features

- Fast response time
- High sensitivity
- Small junction capacitance
- Pb Free
- This product itself will remain within RoHS compliant version.



Descriptions

PT908-7C-F is a phototransistor in miniature package which is molded in a water clear plastic with spherical top view lens. The device is spectrally matched to infrared emitting diode.

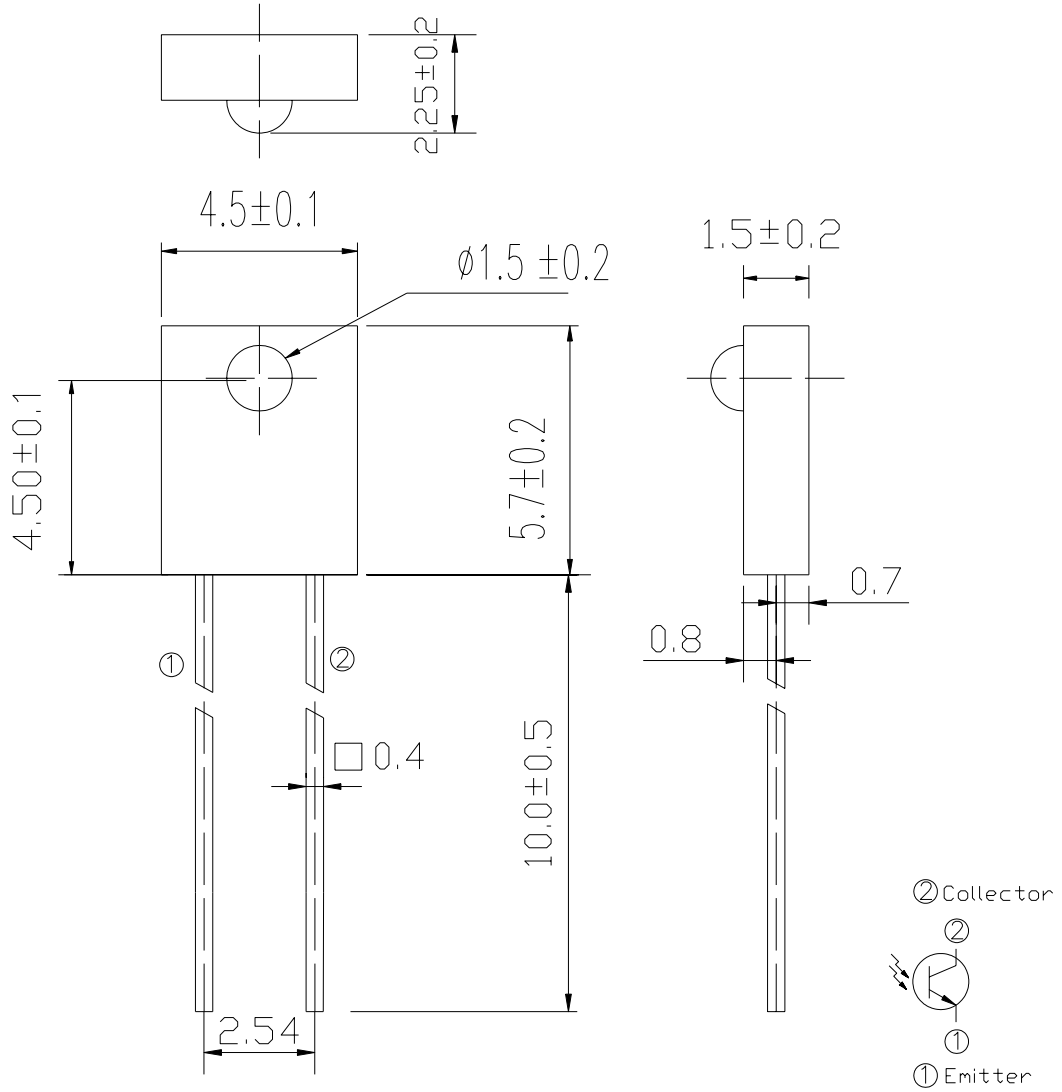
Applications

- Optoelectronic switch
- VCR , Video Camera
- Floppy disk drive
- Infrared applied system

Device Selection Guide

LED Part No.	Chip	Lens Color
	Material	
PT908-7C-F	Silicon	Water Clear

Package Dimensions



- Notes:**
1. All dimensions are in millimeters
 2. Tolerances unless dimensions ± 0.15 mm

Typical Electro-Optical Characteristics Curves

Fig.1 Collector Power Dissipation vs. Ambient Temperature

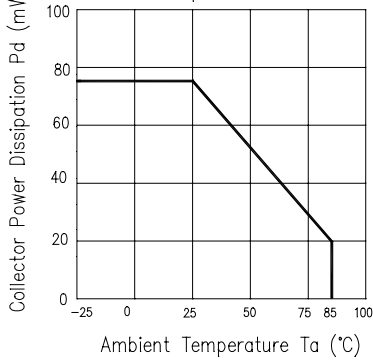


Fig.2 Collector Dark Current vs. Ambient Temperature

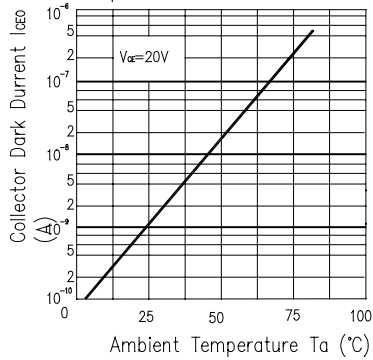


Fig.3 Relative Collector Current vs. Ambient Temperature

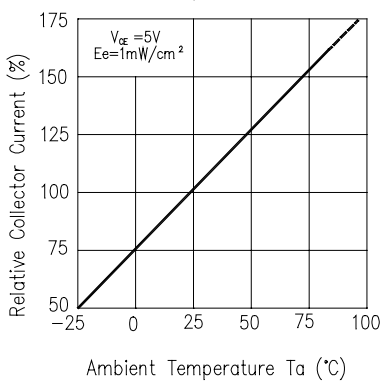


Fig.4 Collector Current vs. Irradiance

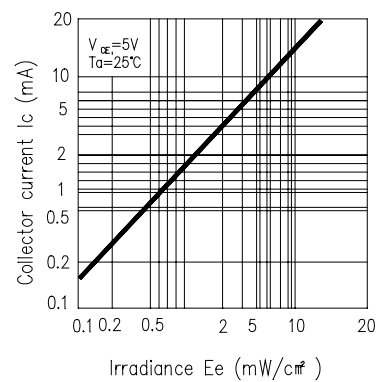


Fig.5 Spectral Sensitivity

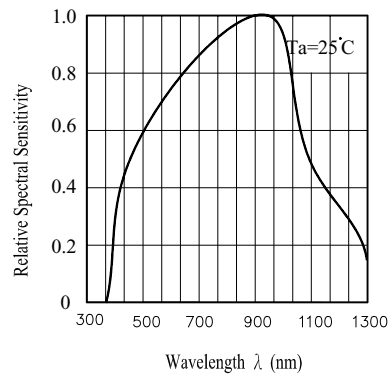
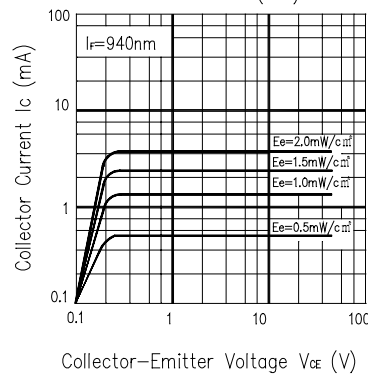
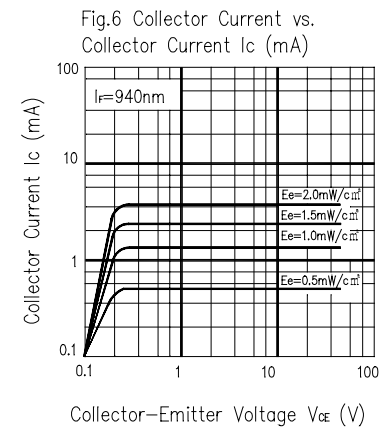
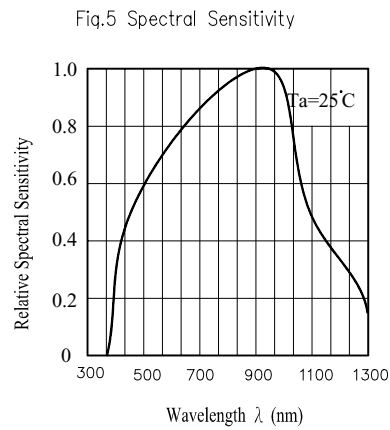
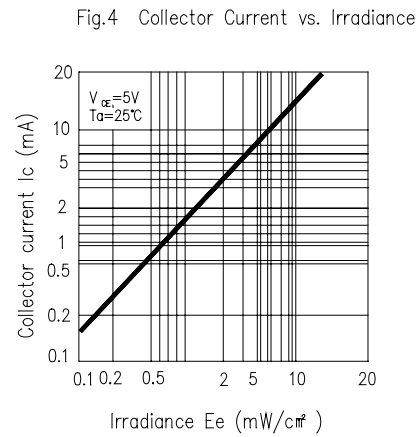
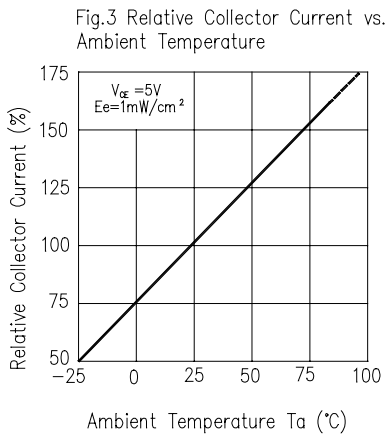
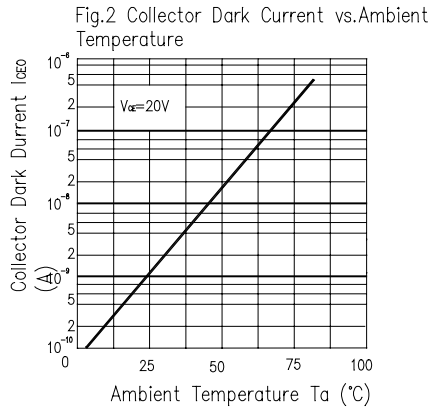
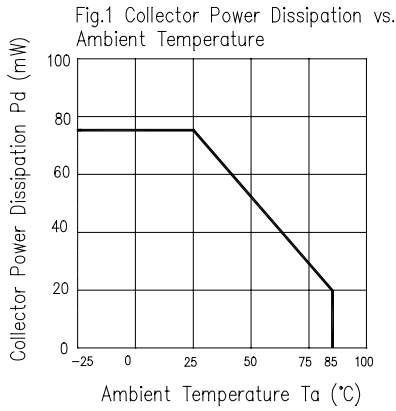


Fig.6 Collector Current vs. Collector-Emitter Voltage

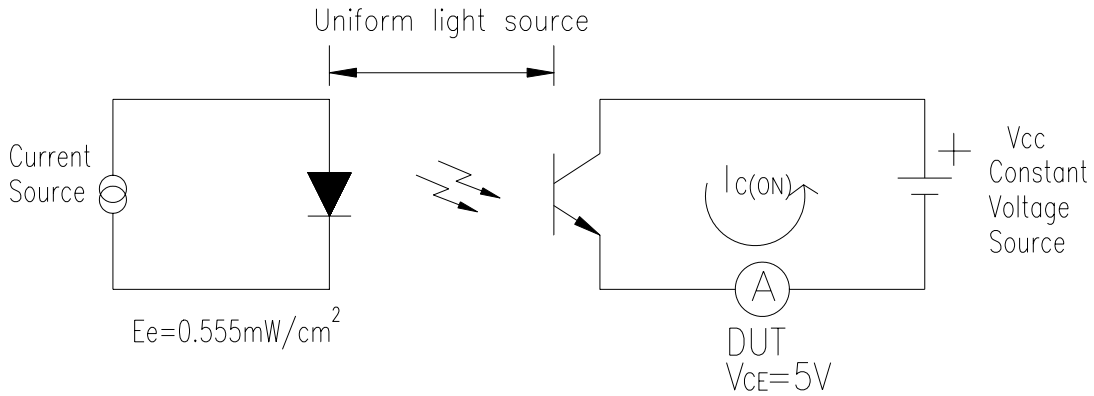


Typical Electro-Optical Characteristics Curves



Test method

Light current test method for PT:



Ranks

Parameter	Symbol	Min	Max	Unit	Test condition
BIN1	$I_{C(ON)}$	0.80	1.53	mA	$V_{CE}=5V$ $E_e=0.555\text{mW}/\text{cm}^2$
BIN2		1.11	1.98		
BIN3		1.43	2.68		
BIN4		1.59	3.06		
BIN5		2.0	5.0		

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/ Cycles	Sample Sizes	Failure Judgement Criteria	Ac/Re
1	Solder Heat	TEMP:260°C±5°C	10sec	22pcs	More than 90% of lead to be covered by soldering $I_R \geq U \times 2$ $E_e \leq L \times 0.8$ $V_F \geq U \times 1.2$ U : Upper Specification Limit L : Lower Specification Limit	0/1
2	Temperature Cycle	H : +100°C 15mins \updownarrow 5mins L : -40°C 15mins	300Cycle	22pcs		0/1
3	Thermal Shock	H :+100°C 5mins \updownarrow 10secs L :-10°C 5mins	300Cycle	22pcs		0/1
4	High Temperature Storage	TEMP. : +100°C	1000hrs	22pcs		0/1
5	Low Temperature Storage	TEMP. : -40°C	1000hrs	22pcs		0/1
6	DC Operating Life	$V_{CE}=5V$	1000hrs	22pcs		0/1
7	High Temperature/ High Humidity	85°C / 85% R.H	1000hrs	22pcs		0/1



PT908-7C-F

Packing Quantity Specification

- 1. 1000 Pcs/1Bag · 10 Bags/1Box
- 2. 10 Boxes/1Carton

Label Form Specification



CPN:

P/N:



QTY: PT908-7C-F



CAT:

HUE:

REF:

LOT NO:



PN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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