

Technical Data Sheet

1.5mm Side Looking Phototransistor

Features

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

PT928-6C-F



Descriptions

PT928-6C-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

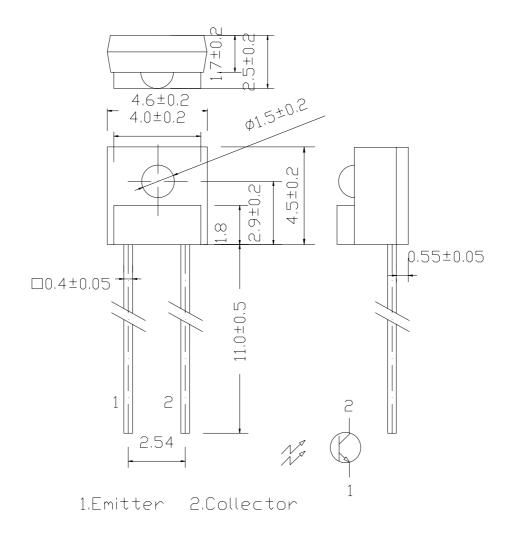
	Chip		
LED Part No.	Material	Lens Color	
PT928-6C-F	Silicon	Water Clear	

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Package Dimensions

PT928-6C-F



Notes: 1.All dimensions are in millimeters 2.Tolerances unless dimensions ±0.25mm

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Parameter	Symbol	Rating	Units
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Collector-Voltage	V _{ECO}	5	V
Collector Current	I _C	40	mA
Operating Temperature	Topr	-25 ~ +85℃	°C
Storage Temperature	Tstg	-40 ~ +85°C	°C
Lead Soldering Temperature	Tsol	260	°C
Power Dissipation at (or below) 25°C Free Air Temperature	P _D	75	mW

Absolute Maximum Ratings (Ta=25°C)

Notes: *1:Soldering time \leq 5 seconds.

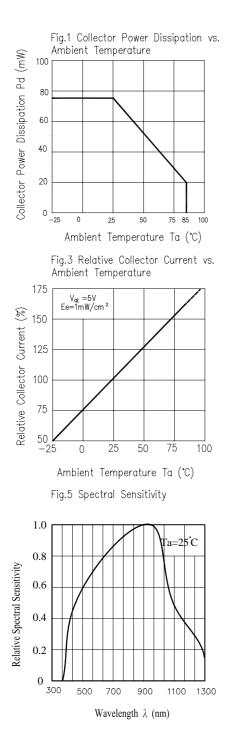
Parameter	Symbol	Condition Min.		Тур.	Max.	Units
Collector – Emitter Breakdown Voltage	BV _{CEO}	$I_{C}=100 \ \mu \text{ A}$ Ee=0mW/cm ²	30			V
Emitter-Collector Breakdown Voltage	BV _{ECO}	$I_{E}=100 \ \mu \text{ A}$ Ee=0mW/cm ²	5			V
Collector-Emitter Saturation Voltage	V _{(CE)(sat)}	I _C =2mA Ee=1mW/cm ²			0.4	V
Rise Time	t _r	V _{CE} =5V I _C =1mA		15		μ S
Fall Time	t _f	RL=1000Ω		15		- ~q
Collector Dark Current	I _{CEO}	Ee=0mW/cm ² V _{CE} =20V			100	nA
On State Collector Current	I _{C(on)}	$\begin{array}{c} \text{Ee=0.555mW/cm}^2\\ \text{V}_{\text{CE}}\text{=}5\text{V} \end{array}$	0.53		3.41	mA
Wavelength of Peak Sensitivity	λp			940		nm
Rang of Spectral Bandwidth	λ 0.5		400		1200	nm

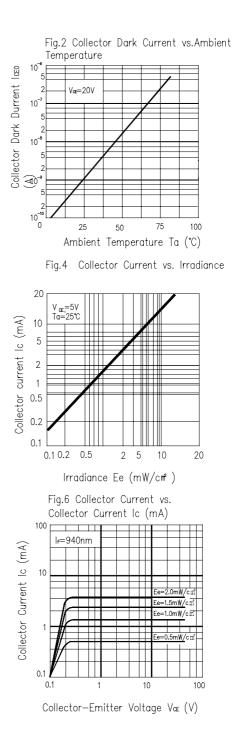
Electro-Optical Characteristics (Ta=25°C)

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Typical Electro-Optical Characteristics Curves

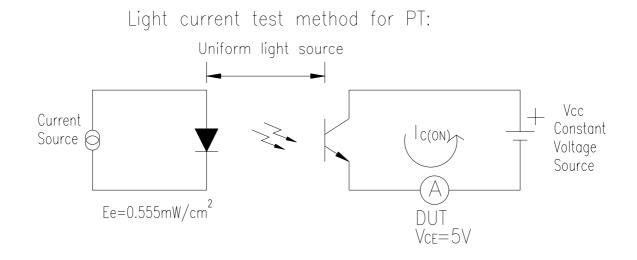




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Test method



Ranks

Parameter	Symbol	Min	Max	Unit	Test condition
7-3	I _{C(ON)}	0.53	1.19	mA	V _{CE} =5V Ee=0.555mW/cm ²
7-2		0.88	1.70		
7-1		1.24	2.21		
6-2		1.59	2.98		
6-1		1.77	3.41		

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

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Packing Quantity Specification

1. 1000 Pcs/1Bag , 10 Bags/1Box

2. 10 Boxes/1Carton

Label Form Specification



CPN: 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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