

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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GHT

DATASHEET

Sidelooker Phototransistor PT928-6C-F



Features

- Fast response time
- High sensitivity
- Small junction capacitance
- Pb Free
- This product itself will remain within RoHS compliant version
- Compliance with EU REACH
- Compliance Halogen Free (Br < 900ppm, Cl < 900ppm, Br+Cl < 1500ppm)

Descriptions

- PT928-6C-F is a phototransistor in miniature package which is molded in a plastic with spherical top view lens
- The device is spectrally matched to infrared emitting diode

Applications

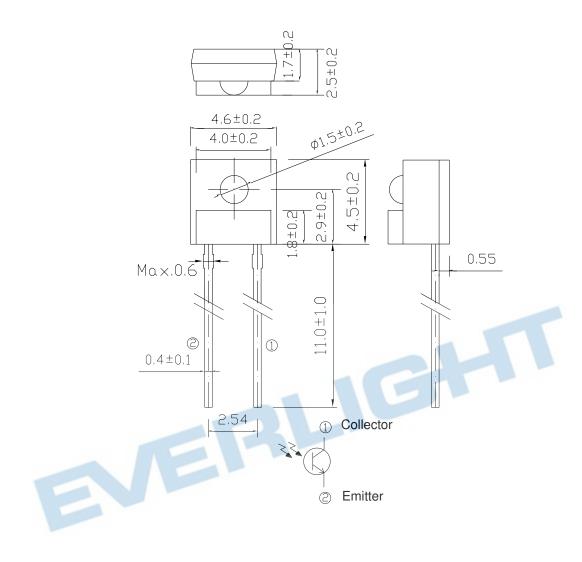
- Optoelectronic switch
- VCR, Video Camera
- Floppy disk drive
- Infrared applied system

Device Selection Guide

Part Category	Chip Material	Lens Color	
PT	Silicon	Water Clear	



Package Dimension



Notes: 1. All dimensions are in millimeters

2. Tolerances unless dimensions ±0.3mm

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Units
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Collector Voltage	V_{ECO}	5	V
Collector Current	I _C	20	mA
Operating Temperature	T_{opr}	-25 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C
Soldering Temperature *1	T _{sol}	260	°C
Power Dissipation at (or below) 25 °C Free Air Temperature	P _d	75	mW

Notes: *1. Soldering time ≤ 5 seconds.



Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Rang of Spectral Bandwidth	λ _{0.5}		450		1100	nm
Wavelength of Peak Sensitivity	λр			940		nm
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =100μA Ee=0mW/cm ²	30		-1	V
Emitter-Collector Breakdown Voltage	BV _{ECO}	I _E =100μA Ee=0mW/cm ²	5			V
Collector Dark Current	I _{CEO}	V _{CE} =20V Ee=0mW/cm ²			100	nA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =2mA Ee=1mW/cm ²	-		0.4	V
On State Collector Current	I _{C(on)}	V _{CE} =5V Ee=0.555mW/cm ²	0.53		3.41	mA

Rank

Condition: V_{CE}=5V, Ee=0.555mW/cm²

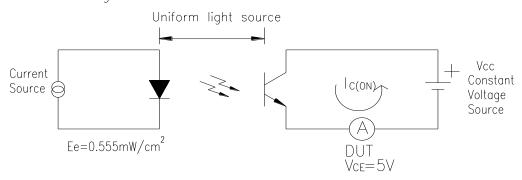
Symbol	Condition	Ranks	Min.	Max.	Unit
I _{C(ON)} V _{CE} = Ee=0.555	V _{CE} =5V Ee=0.555mW/cm ²	7-3	0.53	1.19	
		7-2	0.88	1.70	
		7-1	1.24	2.21	mA
		6-2	1.59	2.98	
		6-1	1.77	3.41	

Notes: This bin table is only for reference, not for specific bin shipment.

Test Method For $I_{C(ON)}$:

Condition: V_{CE}= 5V Ee=0.555mW/cm²

Light current test method for PT:





Typical Electro-Optical Characteristics Curves

Fig.1 Spectral Sensitivity

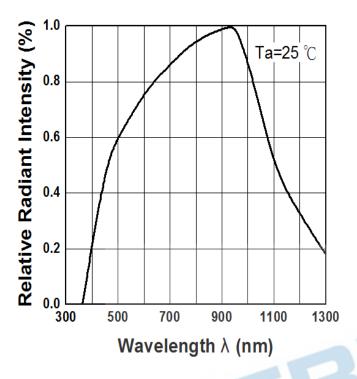


Fig.3 Collector Current vs.
Collector-Emitter Voltage

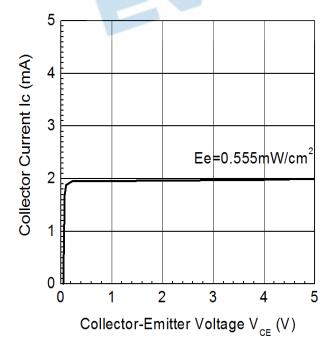
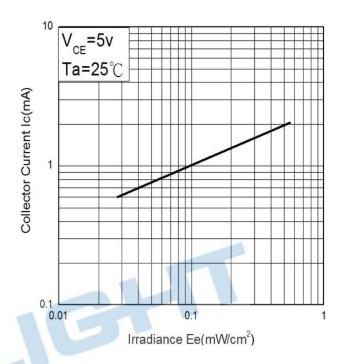


Fig.2 Collector Current Irradiance

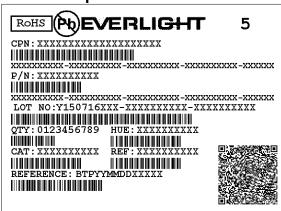




Packing Quantity Specification

1000 pcs/bag, 10 bags/box 10 boxes/carton

Label Form Specification



CPN: Customer Part Number

P/N: Part Number

QTY: Packing Quantity

• CAT: Ranks

· REF: Reference

LOT No: Lot Number

Application Restrictions

- Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
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