EVERLIGHT

Technical Data Sheet

3mm Infrared LED, T-1

PT234-6B

Features

- Fast response time
- High photo sensitivity
- Pb Free
- The product itself will remain within RoHS compliant version.

Descriptions

 PT234-6B is a high speed and high sensitive NPN silicon phototransistor molded in a standard \$\$\phi3\$ mm package . Due to its black epoxy the device is sensitive to infrared radiation.

Applications

- Optoelectronic switch
- VCRs ,Video camera
- Floppy disk drive
- Infrared applied system

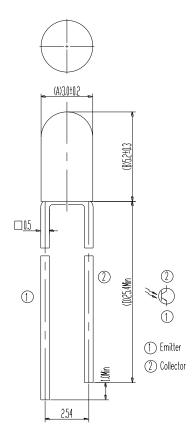
Device Selection Guide

LED Part No.	Chip Material	Lens Color	
РТ	Silicon	Black	



<u>PT234-6B</u>

Package Dimensions



Notes: 1.All dimensions are in millimeters

2. Tolerances unless dimensions ± 0.25 mm

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	T_{sol}	260	°C
Power Dissipation at(or below)	P _d	75	mW
25℃ Free Air Temperature			

Absolute Maximum Ratings (Ta=25°C)

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

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units	
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =100μA Ee=0mW/cm	30			V	
Emitter-Collector Breakdown Voltage	BV _{ECO}	$I_{E}=100\mu A$ 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		15		G	
Fall Time	t _f	$I_{C}=1mA$ $R_{L}=1000\Omega$		15		μS	
Collector Dark Current	I _{CEO}	V _{CE} =20V Ee=0mW/cm ²			100	nA	
On State Collector Current	I _{C(on)}	V _{CE} =5V Ee=1mW/cm ²	0.7		7.07	mA	
Wavelength of Peak Sensitivity	λp			940		nm	
Rang of Spectral Bandwidth	$\lambda_{0.5}$		840		1200	nm	

Rank

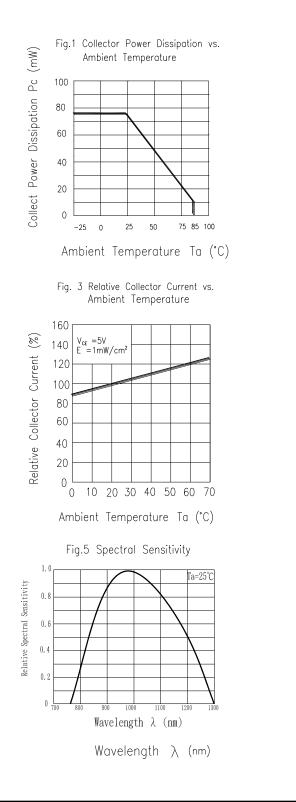
Parameter	Symbol	Min	Max	Unit	Test Condition
G	Ic(_{ON})	0.70	1.90	mA	
Н		1.14	2.60		Ee=1mW/cm ²
J		1.77	3.61		V _{CE} =5V
K		2.67	5.07		
L		4.18	7.07		

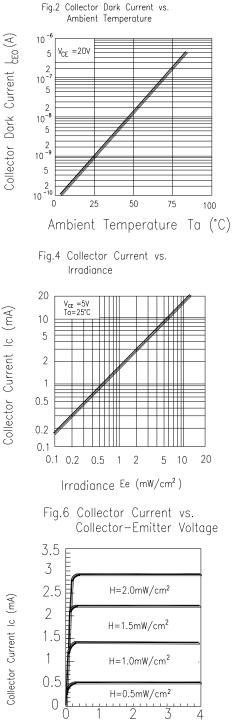
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Typical Electro-Optical Characteristics Curves





Collector-Emitter Voltage V cE (V)

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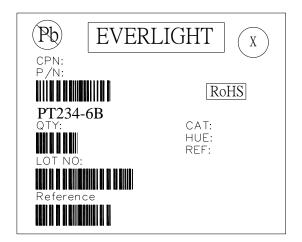


<u>PT234-6B</u>

Packing Quantity Specification

- 1. 1000 Pcs/1Bag , 4 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 X: Month Reference: Identify Label 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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