

Technical Data Sheet

5mm Silicon Phototransistor T-1 3/4

PT534-6B/L321

Features

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

Descriptions

- PT534-6B/L321 is a high speed and high sensitive NPN silicon phototransistor molded in a standard $\phi 5$ mm package. Due to its black epoxy the device is sensitive to visible and near infrared radiation..

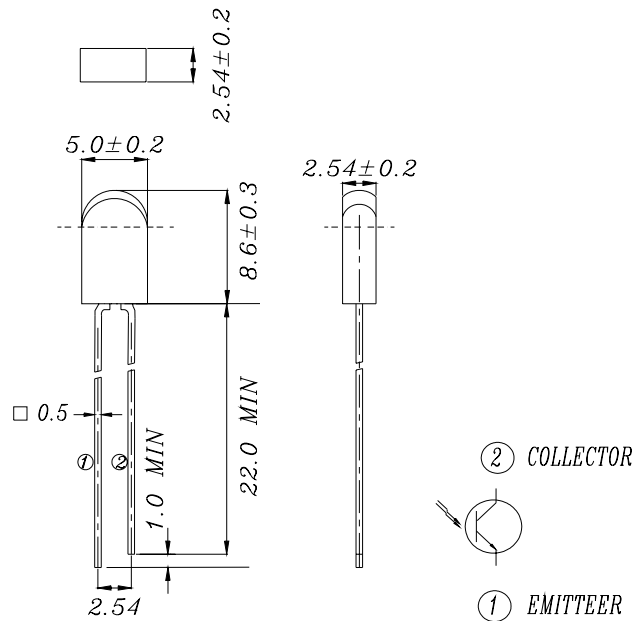
Applications

- Infrared applied system
- Camera
- Printer
- Cockroach catcher

Device Selection Guide

LED Part No.	Chip	Lens Color
	Material	
PT534-6B/L321	Silicon	Black

Package Dimensions



- Notes:** 1.All dimensions are in millimeters
 2.Tolerances unless dimensions $\pm 0.1\text{mm}$

Absolute Maximum Ratings (Ta=25°C)

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}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260	°C
Power Dissipation at (or below) 25°C Free Air Temperature	P_c	75	mW

Notes: *1:Soldering time ≤ 10 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Collector – Emitter Breakdown Voltage	BV_{CEO}	$I_C=100\ \mu A$ $E_e=0mW/cm^2$	80	---	---	V
Emitter-Collector Breakdown Voltage	BV_{ECO}	$I_E=100\ \mu A$ $E_e=0mW/cm^2$	7	---	---	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2mA$ $E_e=1mW/cm^2$	---	---	0.4	V
Rise Time	t_r	$V_{CE}=5V$ $I_C=1mA$ $RL=1000\ \Omega$	---	15	---	μS
Fall Time	t_f		---	15	---	
Collector Dark Current	I_{CEO}	$E_e=0mW/cm^2$ $V_{CE}=20V$	---	---	60	nA
On State Collector Current	$I_{C(on)}$	$E_e=1mW/cm^2$ $V_{CE}=5V$	0.7	1.2	---	mA
Wavelength of Peak Sensitivity	λ_p	---	---	940	---	nm
Rang of Spectral Bandwidth	$\lambda_{0.5}$	---	---	800-1100	---	nm

Typical Electro-Optical Characteristics Curves

Fig.1 Collector Power Dissipation vs. Ambient Temperature

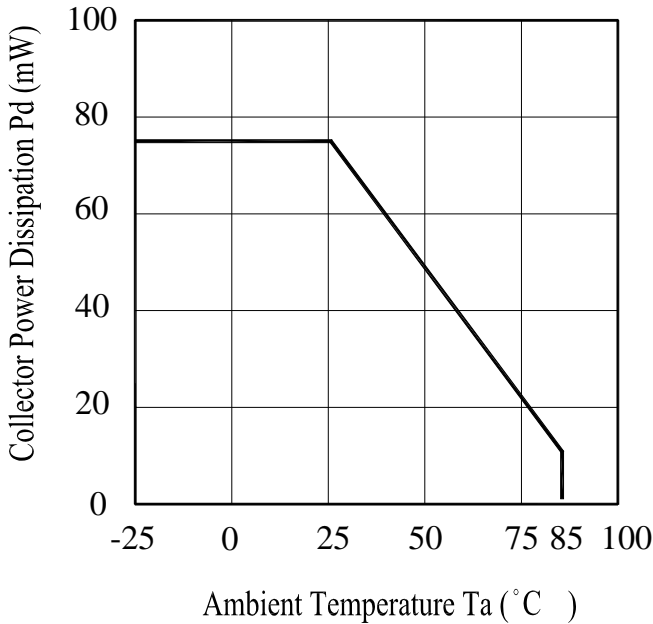


Fig.2 Spectral Sensitivity

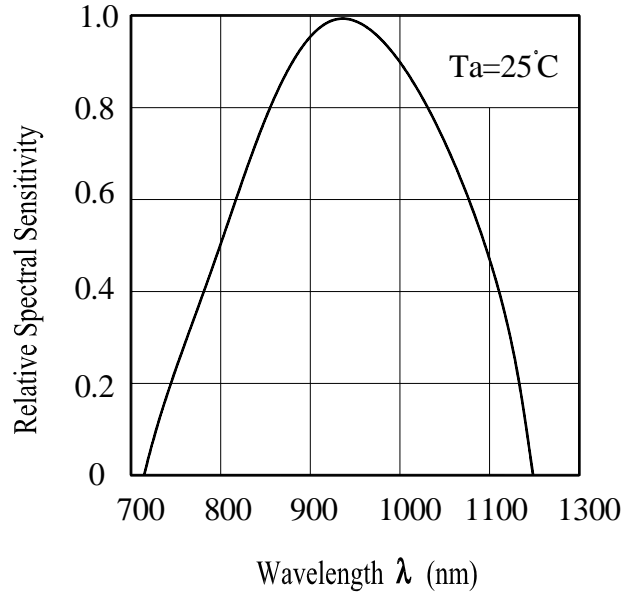


Fig.3 Relative Collector Current vs. Ambient Temperature

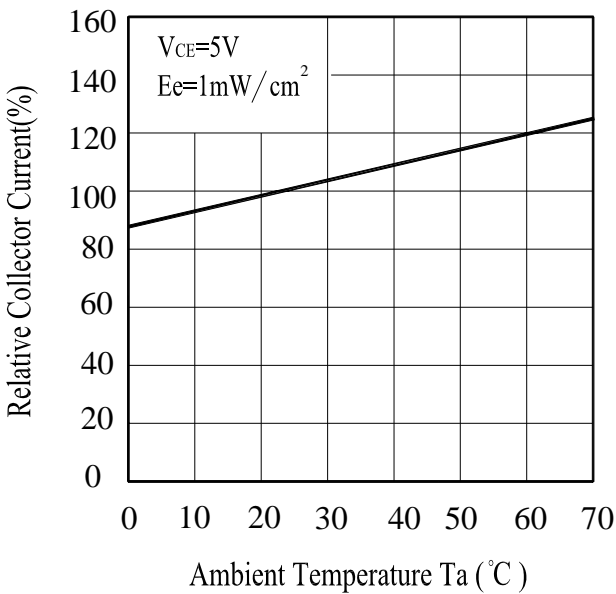
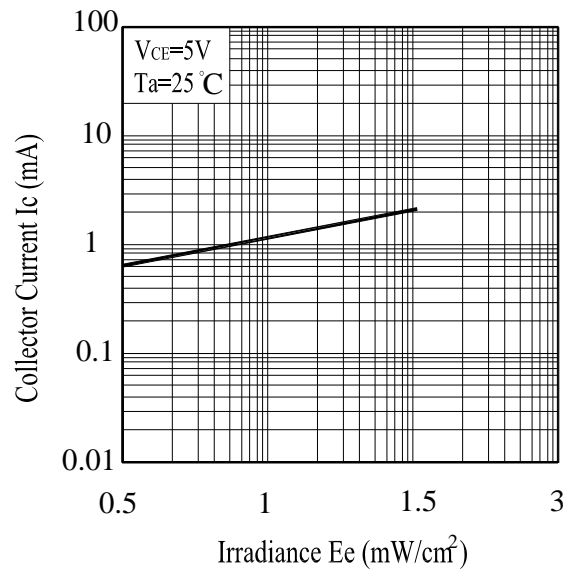


Fig.4 Collector Current vs. Irradiance



Typical Electro-Optical Characteristics Curves

Fig.5 Collector Dark Current vs.

Ambient Temperature

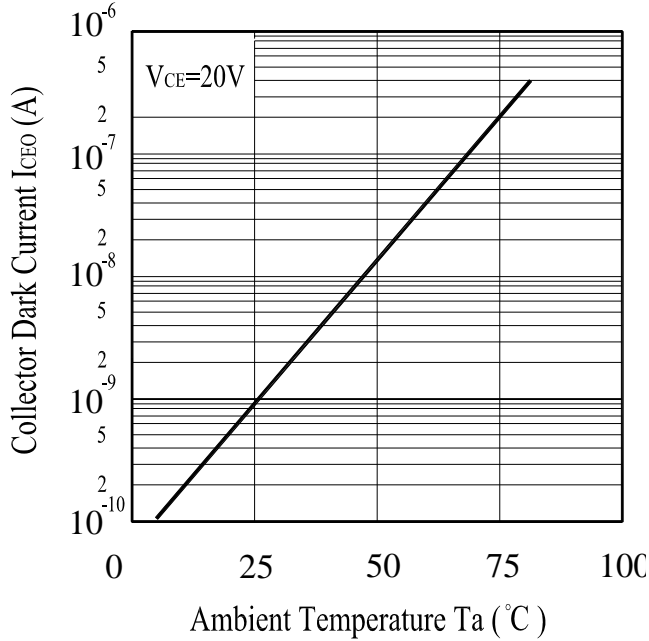
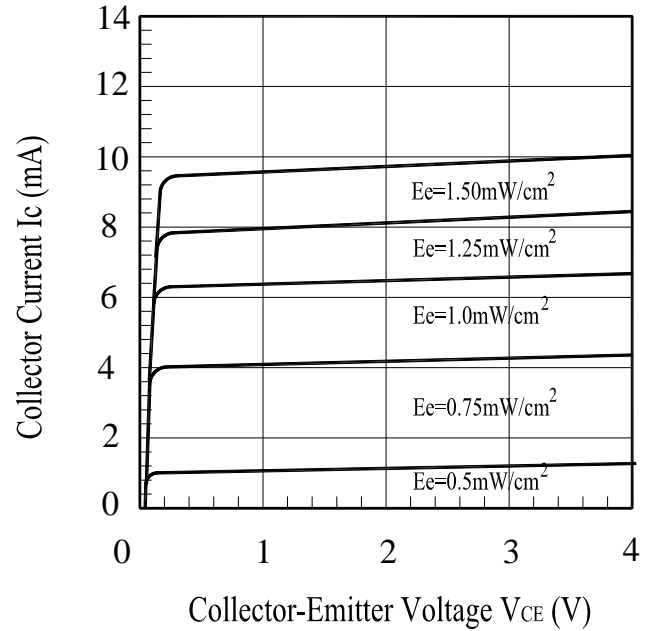


Fig.6 Collector Current vs.

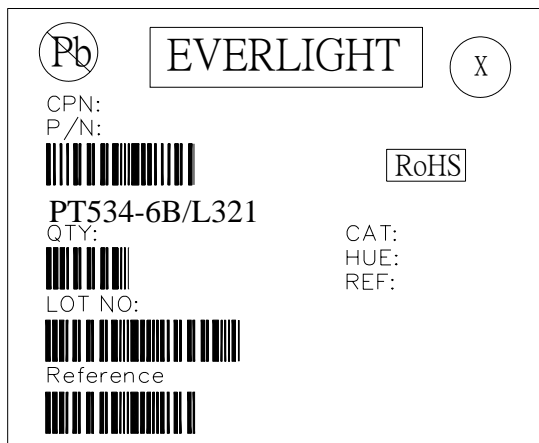
Collector-Emitter Voltage



Packing Quantity Specification

1. 500Pcs/Bags , 6Bags/1Boxes
2. 10Boxes/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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.

EVERLIGHT ELECTRONICS CO., LTD.
Office: No 25, Lane 76, Sec 3, Chung Yang Rd,
Tucheng, Taipei 236, Taiwan, R.O.C

Tel: 886-2-2267-2000, 2267-9936
Fax: 886-2267-6244, 2267-6189, 2267-6306
<http://www.everlight.com>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Phototransistors](#) category:

Click to view products by [Everlight](#) manufacturer:

Other Similar products are found below :

[LTR-5576D](#) [QSD123A4R0](#) [ASDL-6620-C22](#) [OED-ST-8LR2](#) [OED-STR44B90-TR](#) [SD5410-109](#) [PT91-21C/TR7](#) [L-51ROPT1D1](#) [PT928-6C\(X3-X5\)\(XBY\)](#) [PT908-7C\(BIN3\)](#) [PT19-21B/L41/TR8\(BY\)](#) [PT928-6C/F1\(6-1\)](#) [XYC-PT3020F65-L4](#) [DY-PT-8S302320B-6.5T](#) [DY-PTS302320B/6.5T](#) [XL-TD3216PDC](#) [MPT60363T\(SHW\)](#) [XYC-PT26B-L1](#) [XYC-PT2835F30-A4](#) [XYC-PT204B-L1](#) [XYC-PT17B-L1](#) [ZSPT-3216B-19D-T15](#) [ZSPT-3216C-19C-T15](#) [ZSPTP68C](#) [ZSPT0348B](#) [ZPT-Z3224B-T26-T15\(YPX\)](#) [ZSPT034B-N](#) [ZSPT034C-N](#) [PT67-21B/L606/TR8\(DVP-2\)](#) [PT8294-6B](#) [L-3DP3C](#) [XYC-PT3A940FC-A1](#) [XYC-PT19B-L1](#) [XYC-PT3216D25-A1](#) [XYC-PT3A940FC-A4](#) [XYC-PT3B850DC-A2](#) [XYC-PT3A850DC-A1](#) [XYC-PT5A850DC-A1](#) [XYC-PT3212D25-A1](#) [XYC-PT3A850DC-A2](#) [XYC-PT3A850DC-L1](#) [L32ROPT1D1](#) [ZSPT054B](#) [ZSPT868B-F14/H](#) [ZPT-3216B-19D-R15](#) [ZSPTP08C](#) [ZPT-1608B-06-Z4](#) [ZSPT054C](#) [ZSPTP28C](#) [BP 103-3/4](#)