查询PT334-6B供应商 捷多邦，专业PCB打样工厂，24小时加急出货

EVERLIGHT ELECTRONICS CO., LTD.

DATA SHEET

MODEL NO	:	**PT334-6B**
DATE	:	**JUN, 13, 2000**
DEPARTMENT	:	**CHRD 2**
REVISION	:	**1**

RECEIVED

- ■ MASS PRODUCTION
- ☐ PRELIMINARY
- ☐ CUSTOMER DESIGN

DEVICE NUMBER : CDPT-033-001

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CUSTOMER	DESIGNER	CHECKER	APPROVER

REV	DESCRIPTION	RELEASE DATE

OFFICE: 7C Building, LIAN HUA SHAN PORT INDUSTRIAL DISTRICT, PAN YU, GUANG ZHOU CHINA

TEL : 0086-20-84860913 (10 Lines)

FAX : 0086-20-84860600

http://www.everlight.com

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DEVICE NUMBER : CDPT-033-001 REV : 1
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5mm Phototransistor,T-1 3/4

MODEL NO : PT334-6B

Features :

- Fast response time
- High photo sensitivity

Description :

PT334-6B is a high speed and high sensitive silicon NPN epitaxial planar phototransistor in a standard ϕ5 mm package. The package is an IR filter, spectrally match to infrared emitter diode .

Applications :

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

PART NO.	CHIP MATERIAL	LENS COLOR
PT	Silicon	Black

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5mm Phototransistor,T-1 3/4

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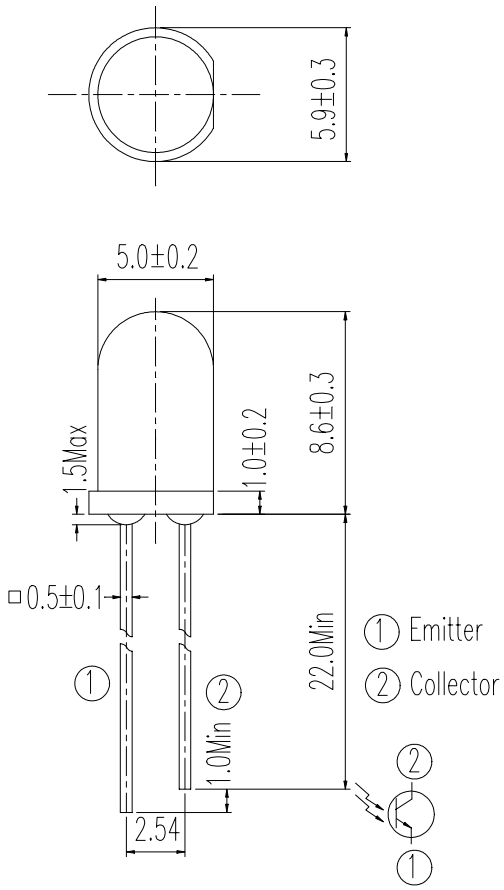
■ Package Dimensions :



■ Notes :

1.All dimensions are in millimeter.

2.Protruded resin under flange 1.5 mm Max.

3.Lead spacing is measured where the lead emerge from the package.

4.Lens color：Black.

5.Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.

6.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.

7.When using this product , please observe the absolute maximum ratings and the instructions for use 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.

5mm Phototransistor,T-1 3/4

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■ Absolute Maximum Ratings at T_A = 25℃

Parameter	Symbol	Rating	Unit	Notice
Collector-Emitter Voltage	V_{CEO}	30	V	
Emitter-Collector- Voltage	V_{ECO}	5	V	
Collector Current	I_C	20	mA	
Operating Temperature	Topr	-25 ~ +85	℃	
Storage Temperature	Tstg	-40 ~ +85	℃	
Soldering Temperature	Tsol	260	℃	4mm from mold body less than 5 seconds
Power Dissipation at(or below) 25℃Free Air Temperature	Pc	75	mW	

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Collector-Emitter Breakdown Voltage	BV_{CEO}	30	----	----	V	I_C=100 μA Ee=0mW/cm²
Emitter-Collector Breakdown Voltage	BV_{ECO}	5	----	----	V	I_E=100 μA Ee=0mW/cm²
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	----	----	0.4	V	I_C=2mA Ee=1mW/cm²
Rise Time	t_r	----	15	----	μS	V_{CE}=5V I_C=1mA R_L=1000Ω
Fall Time	t_f	----	15	----		
Collector Dark Current	I_{CEO}	----	----	100	nA	V_{CE}=20V Ee=0mW/cm²
On State Collector Current	$I_{C(on)}$	0.7	2.0	----	mA	V_{CE}=5V Ee=1mW/cm²
Wavelength of Peak Sensitivity	λ_p	----	980	----	nm	----
Rang of Spectral Bandwidth	$\lambda_{0.5}$	----	840---1200	----	nm	----

5mm Phototransistor,T-1 3/4

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■ Typical Electrical/Optical/Characteristics Curves

Fig.1 Collector Power Dissipation vs. Ambient Temperature

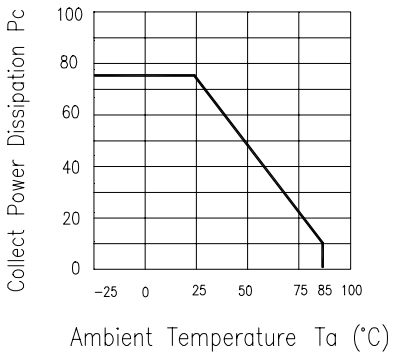


Fig.2 Collector Dark Current vs. Ambient Temperature

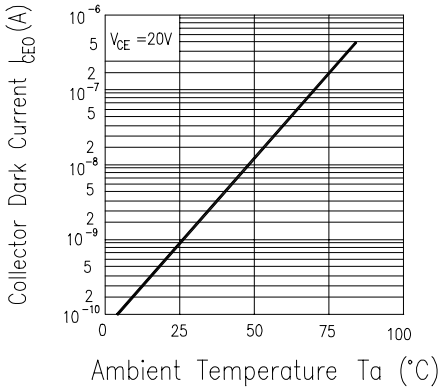


Fig. 3 Relative Collector Current vs. Ambient Temperature

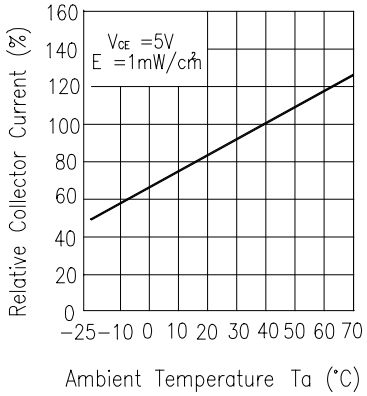


Fig.4 Collector Current vs. Irradiance

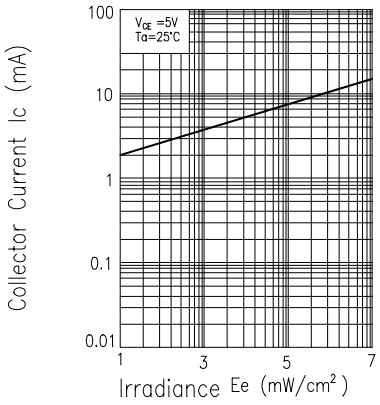


Fig.5 Spectral Sensitivity

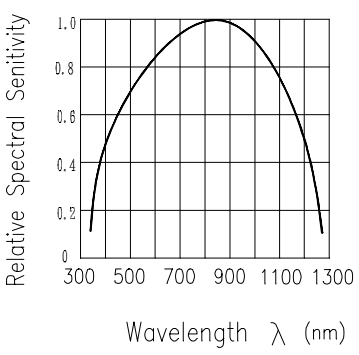
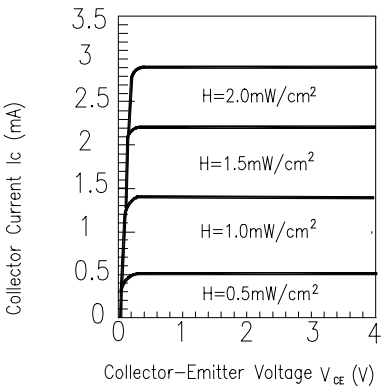


Fig.6 Collector Current vs. Collector-Emitter Voltage



5mm Phototransistor,T-1 3/4

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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 Size	Failure Judgement Criteria	Ac/Re
1	**Solder Heat**	TEMP : 260℃ ± 5 ℃	5 secs	22 pcs	$I_{c(on)} \leqq L \times 0.8$ L :Lower specification limit	0/1
2	**Temperature Cycle**	H : +85℃ 30 mins ↕ 5 mins L : -55℃ 30 mins	50 cycles	22 pcs		0/1
3	**Thermal Shock**	H : +100℃ 5 mins ↕ 10 secs L : -10℃ 5 mins	50 cycles	22 pcs		0/1
4	**High Temperature Storage**	TEMP. : +100℃	1000 hrs	22 pcs		0/1
5	**Low Temperature Storage**	TEMP. : -55℃	1000 hrs	22 pcs		0/1
6	**DC Operating Life**	V_{CE}=5V	1000 hrs	22 pcs		0/1
7	**High Temperature / High Humidity**	85℃ / 85% R.H.	1000 hrs	22 pcs		0/1

5mm Phototransistor,T-1 3/4

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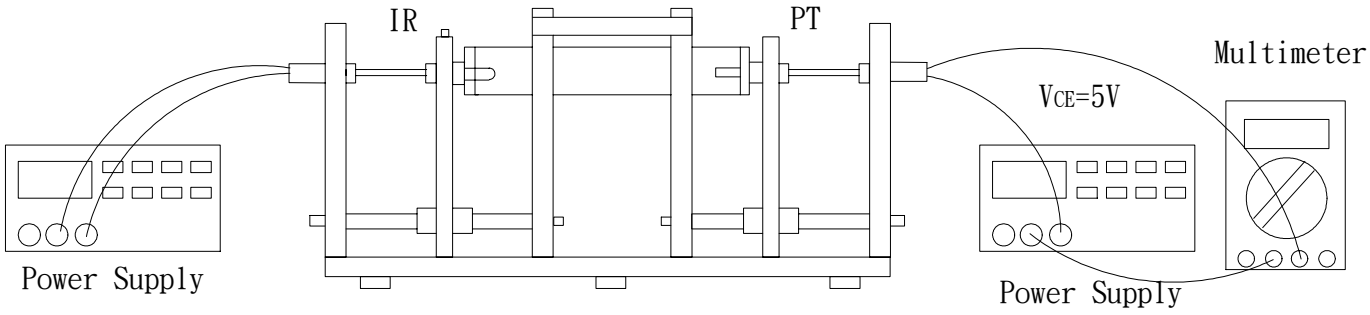
Test Method For On State Collector Current :

Condition : Ee=1mW/cm^2 , V_{CE}=5V

Test Item : Collector Current [$I_{C(on)}$]

Unit : mA



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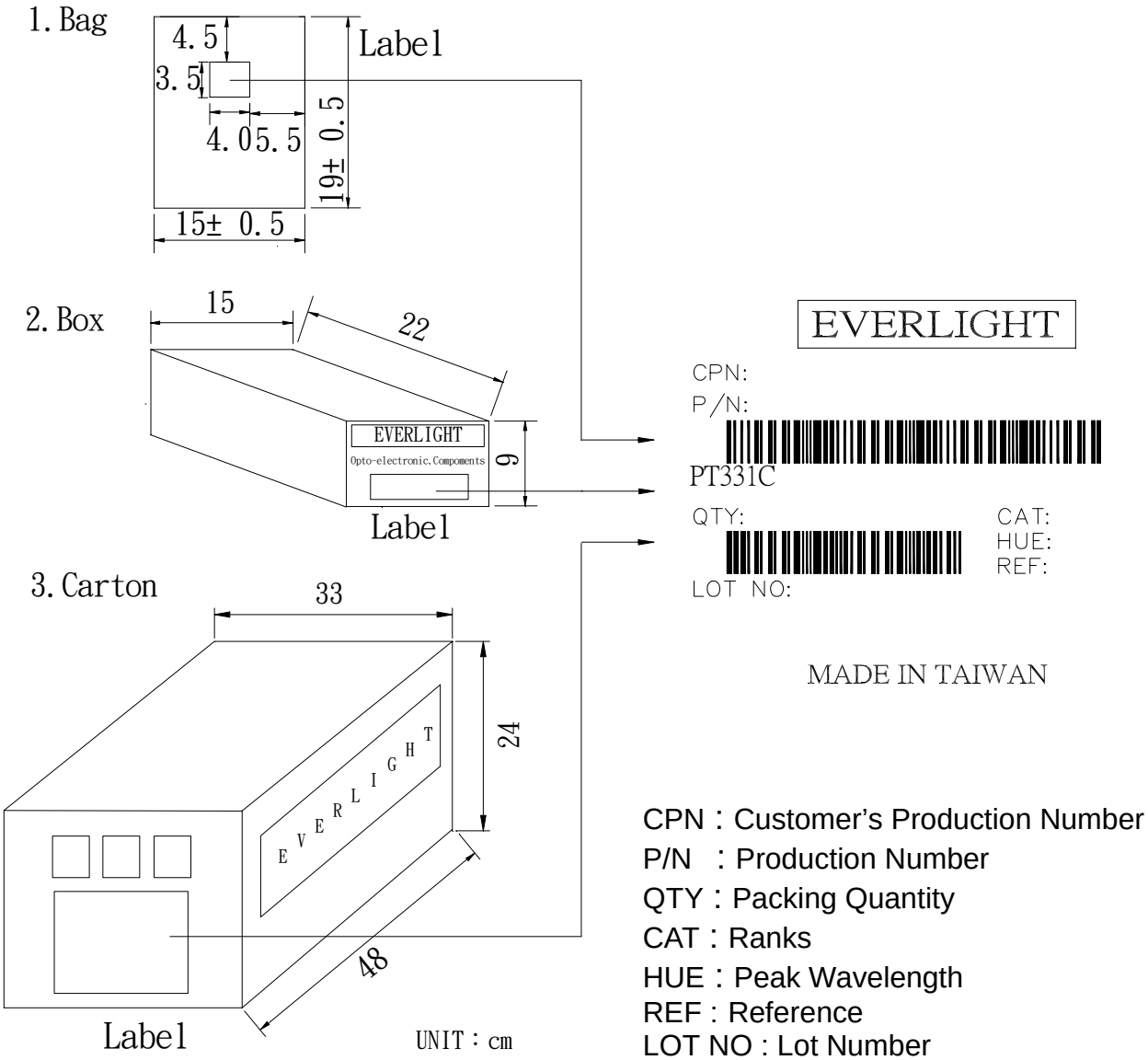
■ Packing Specifications



CPN：Customer's Production Number
P/N ：Production Number
QTY：Packing Quantity
CAT：Ranks
HUE：Peak Wavelength
REF : Reference
LOT NO : Lot Number

■ Packing Quantity Specification

1. 500 Pcs/1Bag，6 Bags/1Box
2. 10 Boxes/1Carton