

SIDE- LOOK PACKAGE PHOTOTRANSISTOR

● Features

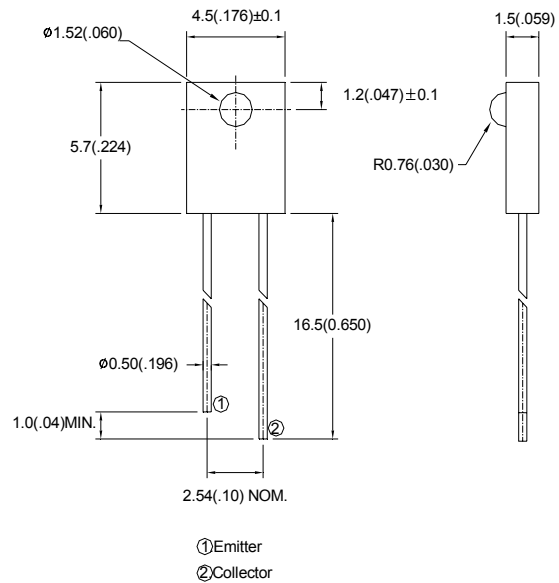
1. Wide range of collector current.
2. High sensitivity.
3. Low cost plastic package.
4. Lens Appearance: Water Clear.
5. This product doesn't contain restriction substance, comply ROHS standard

● Description

The BPT-NP23C1 is a NPN silicon phototransistor mounted in a lensed ,water clear plastic package .

The lensing effect of the package allows an acceptance half view angle of 50° that is measured from the optical axis to the half power point .

● Package Dimensions:



NOTES:

- 1.All dimensions are in millimeters (inches).
- 2.Tolerance is $\pm 0.25\text{mm}$ (0.01') unless otherwise specified.
- 3.Lead spacing is measured where the leads emerge from the package
- 4.Specifications are subject to change without notice

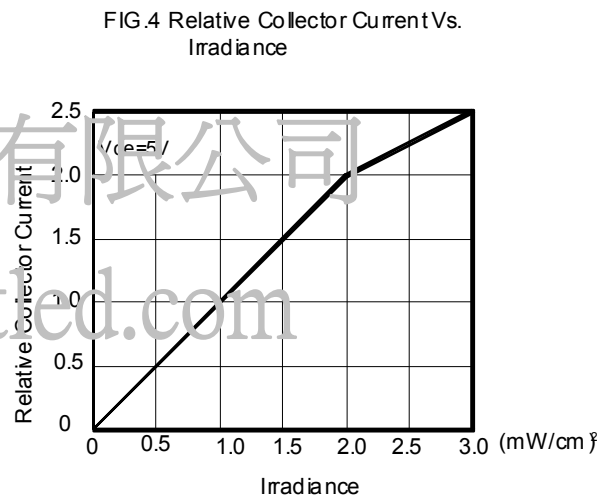
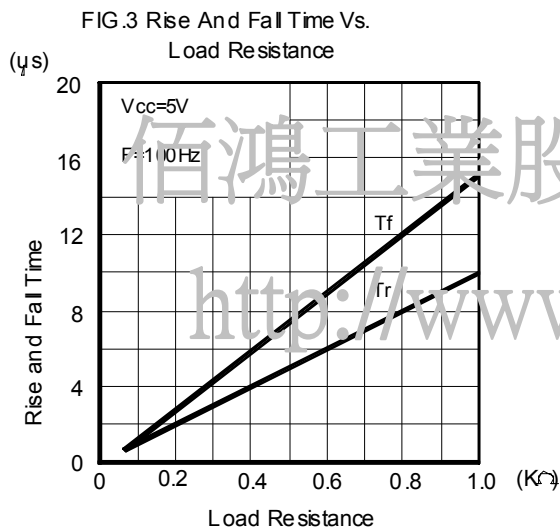
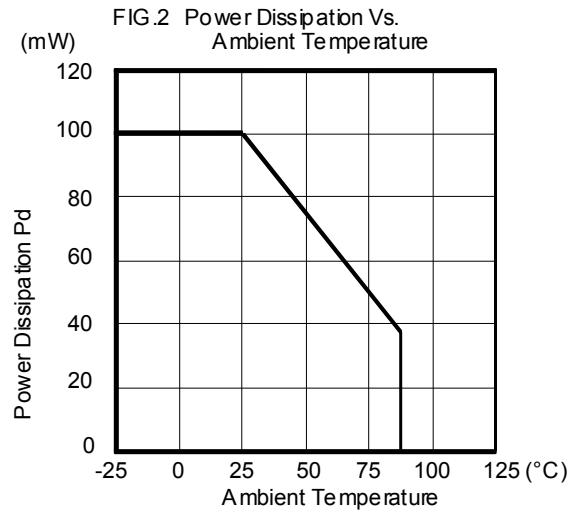
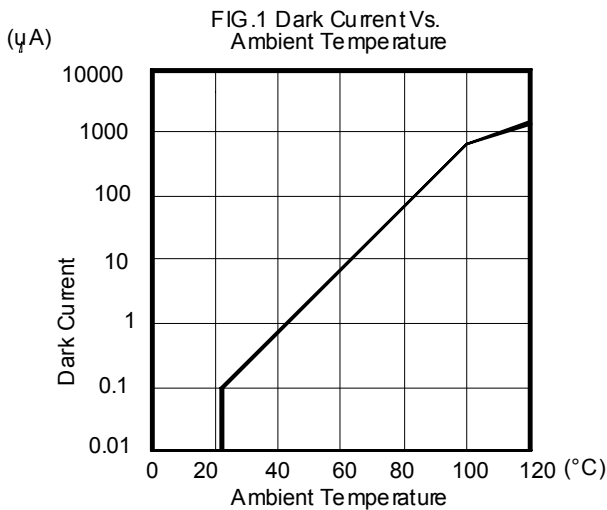
● Absolute Maximum Ratings(Ta=25°C)

Parameter	Maximum Rating	Unit
Power Dissipation	100	mW
Collector- Emitter Voltage	30	V
Emitter- Collector Voltage	5	V
Operating Temperature	-40°C~+85°C	
Storage Temperature Range	-45°C~+100°C	
Lead Soldering Temperature	260°C for 5 seconds	

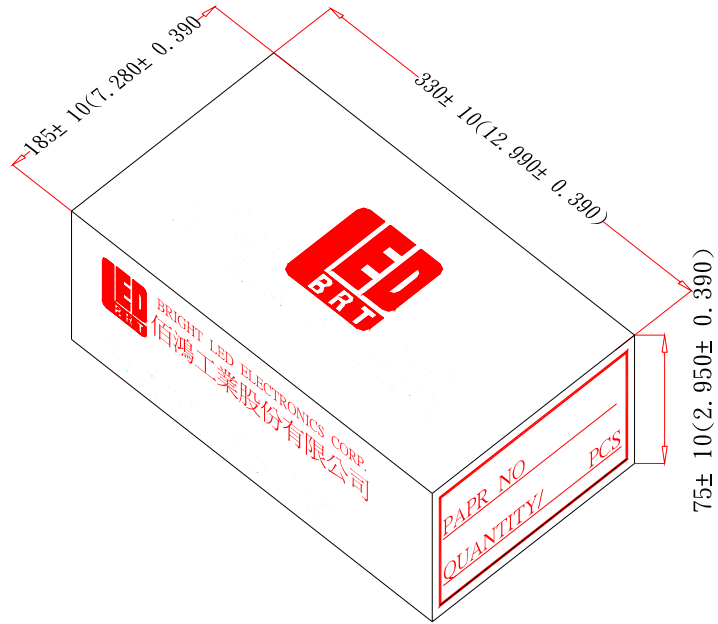
● **Electrical Characteristics** (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Collector- Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	$I_C=1\text{ mA}$ $E_e=0\text{mW/cm}^2$
Emitter-Collector Breakdown Voltage	$V_{(BR)ECO}$	5	-	-	V	$I_R=0.1\text{mA}$ $E_e=0\text{ mW/cm}^2$
Collector- Emitter Saturation Voltage	$V_{CE(SAT)}$	-	-	0.5	V	$I_C=0.1\text{ mA}$ $E_e=1.0\text{ mW/cm}^2$
Rise Time	T_r	-	15	-	μS	$V_{CE}=5\text{V}$ $R_L=1\text{K}\Omega$ $F=100\text{HZ}$
Fall Time	T_f	-	15	-		
Collector Dark Current	I_d	-	-	100	nA	$V_{CE}=10\text{V}$ $E_e=0\text{ mW/cm}^2$
Light Current	$I_{C(ON)}$	-	1.7	-	mA	$V_{CE}=5\text{V}$ $E_e=1.0\text{ mW/cm}^2$

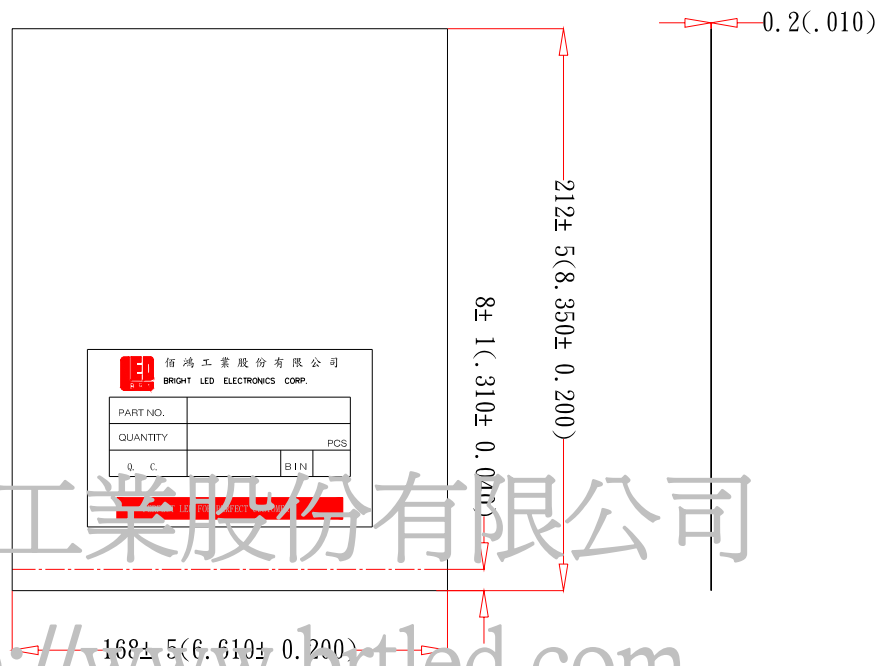
● **Typical Optical-Electrical Characteristic Curves**



● Tapping and packaging specifications(Units: mm)



● Packaging Bag Dimensions



Notes:

- 1、1000pcs per bag, 8Kpcs per box.
- 2、All dimensions are in millimeters(inches).
- 3、Specifications are subject to change without notice.

Phototransistor Specification

- ☐ Commodity: Phototransistor
- ☐ Collector Current Bin Limits (At 1mW/ cm²)

BIN CODE	Min.(mA)	Max.(mA)
P10	1.250	1.400
P11	1.400	1.550
P12	1.550	1.700
P13	1.700	1.850
P14	1.850	2.000
P15	2.000	2.150
P16	2.150	2.350
P17	2.350	2.600
P18	2.600	2.850

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