

END- LOOK PACKAGE PHOTOTRANSISTOR

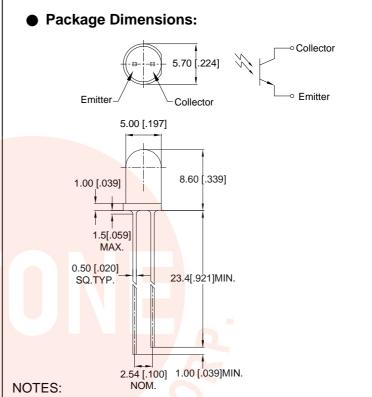
I Features

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

I Description

The BPT-BP2334 is a NPN silicon phototransistor mounted in a lensed, special dark plastic package

The lensing effect of the package allows an acceptance half view angle of 15° that is measured from the optical axis to the half power point.



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25mm (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

I Absolute Maximum Ratings(Ta=25°C)

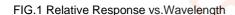
Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Collector- Emitter Voltage	30	V	
Emitter- Collector Voltage	5	V	
Operating Temperature	-40°C ~+85°C		
Storage Temperature Range	-45°C ~+85°C		



Electrical Characteristics (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Collector- Emitter Breakdown Voltage	e V _{(BR)CEO}	30	-	-	V	I _C =0.1mA, Ee=0mW/cm ²
Emitter-Collector Breakdown Voltage	V _{(BR)ECO}	5	-	-	V	I _R =0.1mA, Ee=0 mW/cm ²
Collector- Emitter Saturation Voltage	V _{CE(SAT)}	-	-	0.5	V	I _C =0.1 mA, Ee=1.0 mW/cm ²
Spectral range of sensitivity	λ10%	400	940	1100	nm	
Wavelength of max sensitivity	λр		940		nm	
Rise Time	T _r	-	15	-	μS	Vcc=5V, R_L =1KΩ, I_C =1mA
Fall Time	T _f	-	15	-	μS	Vcc=5V, R_L =1KΩ, I_C =1mA
Collector Dark Current	I _{CEO}		\ - \	0.1	uA	V _{CE} =10V, E _e =0 mW/cm ²
On State Collector Current	I _{C(ON)}		3.5	-	mA	V _{CE} =5V, E _e =1.0mW/cm ²
Viewing Angle	2θ _{1/2}		15		deg	

I Typical Optical-Electrical Characteristic Curves



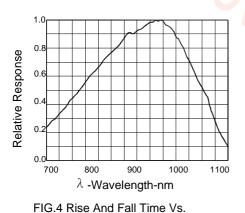
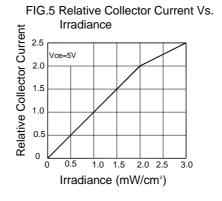
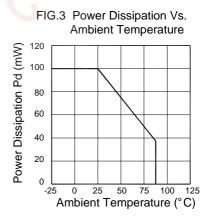
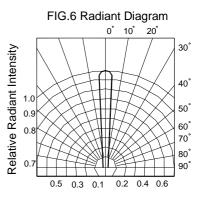


FIG.2 Dark Current Vs.
Ambient Temperature



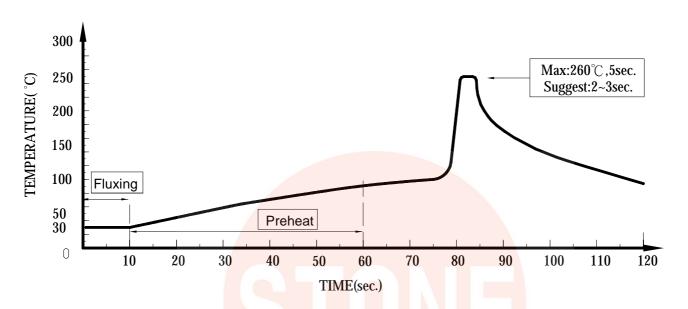




Load Resistance (K∩)



Dip Soldering

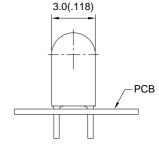


- 1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
- 4. Avoid rapid cooling during temperature ramp-down process
- 5. Although the soldering condition is recommended above, soldering at the lowest possible temperature is feasible for the LEDs

● IRON Soldering

A: Max: 350°C Within 3 sec. One time only.

B. The products of 3mm without flange, welding condition of flat plate PCB Max: 350





Phototransistor Specification

2Commodity: Phototransistor

2Intensity Bin Limits (V_{CE}=5V, Ee=1.0mw/cm²)

BIN CODE	Min.(Ma)	Max.(Ma)	
S	1.485	2.139	
Т	2.139	3.081	
U	3.081	4.313	
V	4.313	6.038	
W	6.038	8.453	

NOTES: Tolerance of measurement of Radiant Intensity :±15%