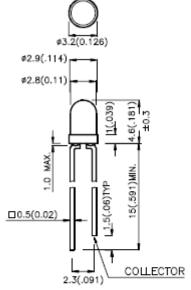
T-1(3mm) PHOTOTRANSISTOR

BPW42

- •MECHANICALLY AND SPECTRALLY MATCHED TO THE BPW42 SERIES INFRARED EMITTING LED LAMP
- •WATER CLEAR LIGHT

Description

Made with NPN silicon phototransistor chips.



Package Dimensions

- Notes:

 1. All dimensions are in millimeters (inches).

 2. Tolerance is ±0.25(0.01")unless otherwise noted.

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

 4. Specifications are subjected to change without notice.

Absolute Maximum Ratings at TA=25°C

B	Maniana Batian			
Parameter	Maximum Rating			
Collector-to-Emitter Breakdown Voltage	30V			
Emitter-to-Collector Breakdown Voltage	5V			
Power Dissipation at (or below) 25 °CFree Air Temperature	100mW			
Operating Temperature Range	40°C~+85°C			
Storage Temperature Range	40 °C ~ +85 °C			
Lead Soldering Temperature (4mm for 5sec)	260 ° C			

Electrical and Radiant Characteristics TA=25°C

Symbol	Parameter	Min.	Тур.	Max.	Unit	Test Condiction
V _{BR CEO}	Collector-to-Emitter Breakdown Voltage	30	-	-	٧	I _c =100uA I _B =0
V _{BR 800}	Emitter-to-Collector Breakdown Voltage	5	-	-	٧	I _E =100uA I _B =0
V _{CE (SAT)}	Collector-to-Emitter Saturation Voltage	-	-	0.8	٧	I _c =0.1mA H=2.5mW/cm ²
I _{CEO}	Collector Dark Current	-	-	100	nA	V _{ct} =10V H=0mW/cm²
T _R	Rise Time (10% to 90%)	-	3	-	us	V _{ct} =5V I _c =1mA
Tp	Fall Time (90% to 10%)	,	3	-	us	R _L =100 ohms
L _(ON)	On State Collector Current	0.9	-	1.1	mA	
		1.1	-	1.3	mA	Vcs=5V E _s =1mW/cm ²
		1.3	-	1.6	mA	λ=940nm
		1.6	-	1.9	mA	

