

BRIGHT LED ELECTRONICS CORP.

●Device Number : BPT-BP2931

Page: 2

●Absolute Maximum Rating(Ta=25℃)

Version:1.2

Item	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Collector-Emitter Voltage	V _{CE0}	30	V
Emitter-Collector Voltage	V _{EC0}	5	V
Operating Temperature	Topr	-45~+85	℃
Storage Temperature	Tstg	-45~+100	℃
Soldering Temperature(*1)	Tsol	250	℃

(*1)、For 5 Sec

●Electrical And Optical Characteristics(Ta=25℃)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _c =0.5mA, E _e =0.5mW/cm ²	—	—	0.5	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _c =1mA, E _e =0mW/cm ²	30	—	—	V
Emitter-collector Breakdown Voltage	V _{(BR)ECO}	I _e =100μA, E _e =0mW/cm ²	5	—	—	V
Light Current	I _{c(on)}	V _{ce} =5V, E _e =0.5mW/cm ²	0.3	0.65	—	mA
Dark Current	I _d	V _{ce} =10V, E _e =0mW/cm ²	—	—	100	nA
Rise Time	Tr	F=100Hz, V _{ce} =5V, R _i =1kΩ	—	10	—	μs
Fall Time	Tf		—	15	—	μs
Viewing Angle	2θ1/2	V _{ce} =5V, E _e =0.5mW/cm ²	—	30	—	deg

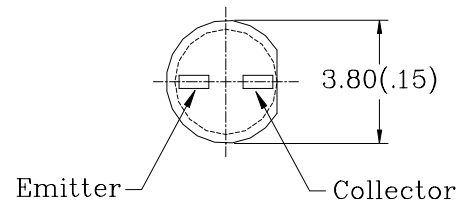
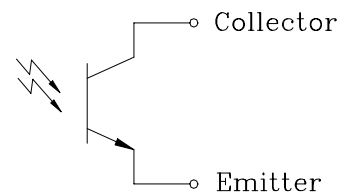
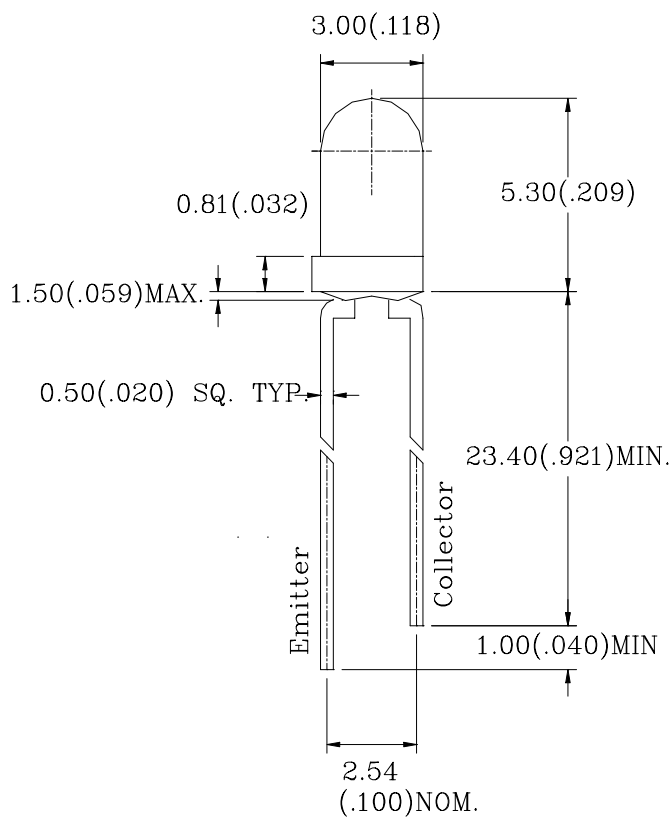
BRIGHT LED ELECTRONICS CORP.

●Device Number:BPT-BP2931

Page: 3

●Dimensions

Version:1.1



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.
- 5、Lens appearance: black.

BRIGHT LED ELECTRONICS CORP.

●Device Number:BPT-BP2931

Page: 4

●Electrical And Optical Curves($T_a=25^{\circ}\text{C}$)

Version:1.1

FIG.1 Dark Current Vs. Ambient Temperature

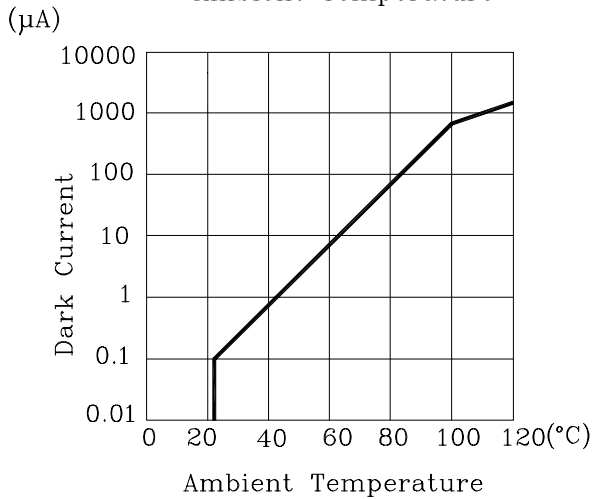


FIG.2 Power Dissipation Vs. Ambient Temperature

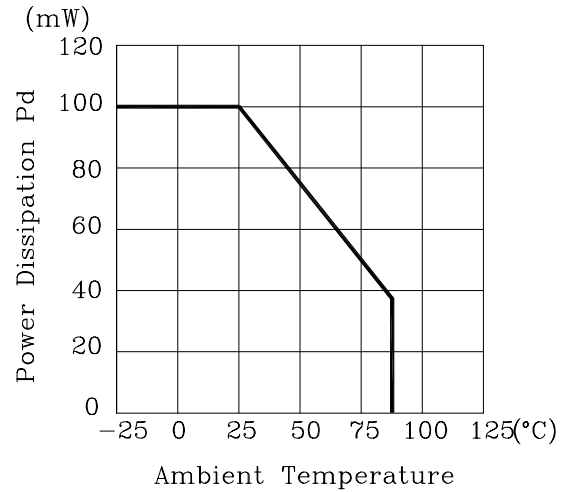


FIG.3 Rise And Fall Time Vs. Load Resistance

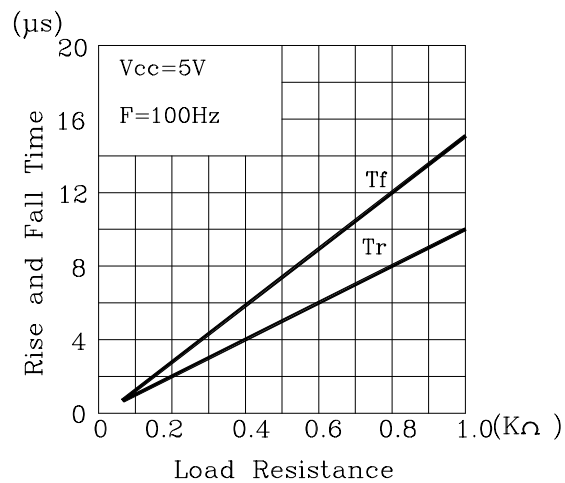


FIG.4 Relative Collector Current Vs. Irradiance

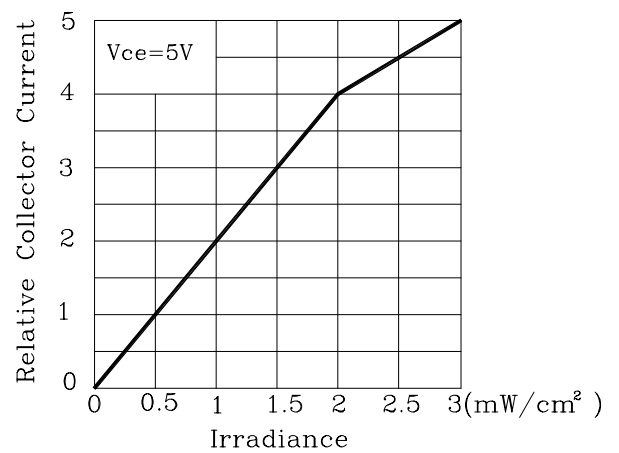
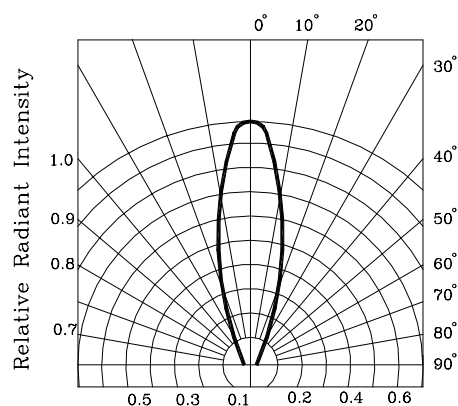


FIG.5 Radiant Diagram



Mouser Electronics

Authorized Distributor

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[BPT-BP2931](#)