



BVL-512E1B

PACKAGE CONFIGURATION

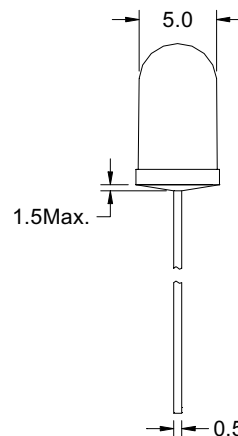
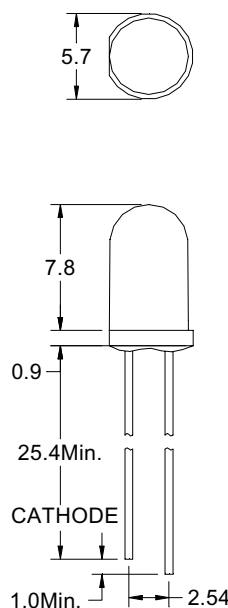
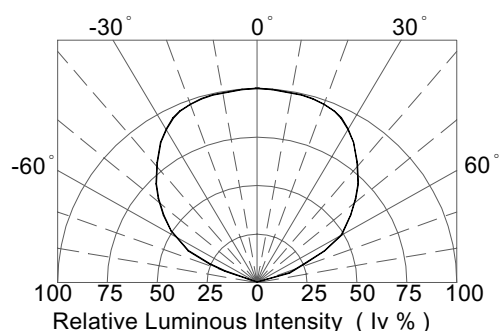
DESCRIPTION

Dice Material : GaAsP/GaP Red

Light Color : Red Color

Lens Color : Red Diffused

RADIATION PATTERN



Tolerance ± 0.25 mm

ABSOLUTE MAXIMUM RATINGS AT $T_a = 25^\circ\text{C}$

PARAMETER	MAX.	UNIT
Power Dissipation	360	mW
Average Forward Current	30	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width)	160	mA
Reverse Voltage	5	V
Derating Linear From 25 °C	0.4	mA/°C
Operating Temperature Range	−30 °C to + 85 °C	
Storage Temperature Range	−40 °C to + 100 °C	
Lead Solder Temperature 1.6 mm Below Package 260 °C for 5 seconds		

ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_a = 25^\circ\text{C}$

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V_F	Forward Voltage	$I_F = 20\text{ mA}$		3.0	12.0	V
I_R	Reverse Current	$V_R = 5\text{ V}$			100	μA
F	Pulse Rate	$I_F = 20\text{ mA}$		2.4		Hz
λ_p	Peak Emission Wavelength	$I_F = 20\text{ mA}$		635		nm
λ_d	Dominant Wavelength	$I_F = 20\text{ mA}$		625		nm
$2\theta_{1/2}$	Viewing Angle	$I_F = 20\text{ mA}$		120		Deg
I_v	Luminous Intensity	$I_F = 20\text{ mA}$		20		mcd

*Bright View reserves the rights to alter specifications and remove availability of products at anytime without notice.

*Dominant Wavelength, λ_d is according to CIE Chromaticity Diagram base on color of lamps.

* $\theta_{1/2}$ is the off-axis angle where the luminous intensity is one half the on-axis intensity.