



BVU-5W5BA1

PACKAGE CONFIGURATION

DESCRIPTION

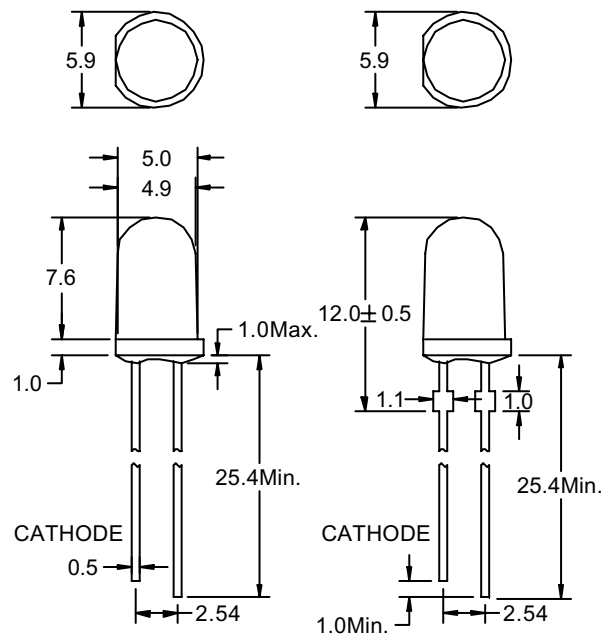
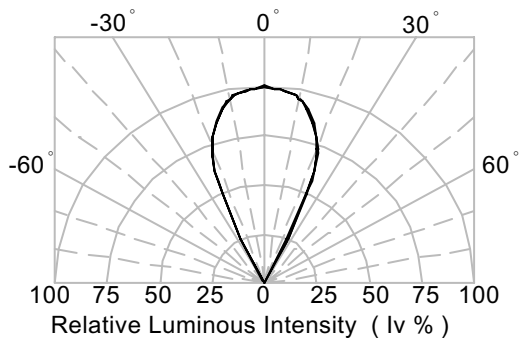
Dice Material : GaN Blue

Light Color : Blue Color

Lens Color : Blue Diffused

Stand-Off P/N : BVU-5W5BA1 R

RADIATION PATTERN



Tolerance $\pm 0.25 \text{ mm}$

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

PARAMETER	MAX.	UNIT
Power Dissipation	120	mW
Continuous Forward Current	30	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width)	100	mA
Reverse Voltage	5	V
Derating Linear From 50 °C	0.4	mA/°C
Operating Temperature Range	−40 °C to + 100 °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 mA		3.4	4.0	V
I _R	Reverse Current	V _R = 5V			10	μA
λ_p	Peak Emission Wavelength	I _F = 20 mA		465		nm
λ_d	Dominant Wavelength	I _F = 20 mA		470		nm
$2\theta_{1/2}$	Viewing Angle	I _F = 20 mA		50		Deg

BIN GRADE LIMITS (I_F = 20 mA) LUMINOUS INTENSITY / mcd

Bin	A	B	C	D	E	F
Min.	100	130	168	218	280	360
Max.	130	168	218	280	360	465

Tolerance $\pm 15\% \text{ mcd}$

*Bright View reserves the rights to alter specifications and remove availability of products at any time 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.

*These products are sensitive to static electricity. Caution must be taken strictly to avoid static electricity.

PRELIMINARY

2001/11/13 -1