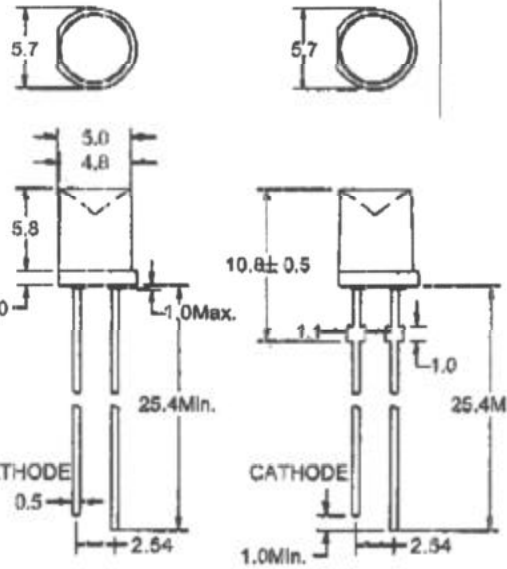


# ULTRA BRIGHTNESS LED LAMP

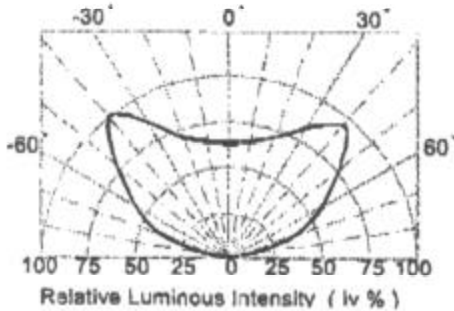
## PACKAGE CONFIGURATION



## DESCRIPTION

Dice Material : AlInGaP/GaP Orange Red  
 Light Color : Orange Red Color  
 Lens Color : Water Transparent  
 Stand-Off P/N : BVU-524QT4 R

## RADIATION PATTERN



Tolerance  $\pm 0.25$  mm

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

PARAMETER	MAX.	UNIT
Power Dissipation	80	mW
Continuous Forward Current	30	mA
Peak Forward Current ( 1/10 Duty Cycle , 0.1ms Pulse Width )	160	mA
Reverse Voltage	5	V
Derating Linear From $50^\circ\text{C}$	0.4	mA/ $^\circ\text{C}$
Operating Temperature Range	$-40^\circ\text{C}$ to $+100^\circ\text{C}$	
Storage Temperature Range	$-40^\circ\text{C}$ to $+100^\circ\text{C}$	
Lead Solder Temperature 1.6 mm Below Package	260 $^\circ\text{C}$ for 5 seconds	

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

SYMBOL	PARAMETER	TEST COND	MIN.	TYP.	MAX.	UNIT
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 20 mA		2.3	2.8	V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 5V			100	$\mu\text{A}$
$\lambda_p$	Peak Emission Wavelength	I <sub>F</sub> = 20 mA		634		nm
$\lambda_d$	Dominant Wavelength	I <sub>F</sub> = 20 mA		629		nm
$2\theta_{1/2}$	Viewing Angle	I <sub>F</sub> = 20 mA		130		Deg

## BIN GRADE LIMITS ( I<sub>F</sub> = 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  $\pm 15\%$  mcd

reserves the rights to alter specifications and remove availability of products at any time without notice.

\*Dominant Wavelength,  $\lambda_d$  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.

PRELIMINARY  
 2001/11/13 -1