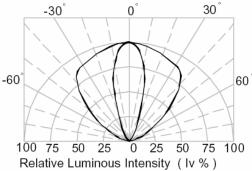
#### BRIGHT VIEW ELECTRONICS CO.,LTD

# **BVU-539QG9**

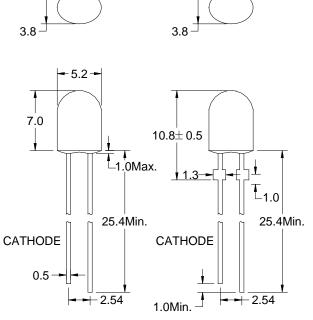
### DESCRIPTION

Dice Material : AlGaInP Orange Red Light Color : Orange Red Color Lens Color : Red Tinted Diffused Stand-Off P/N : BVU-539QG9 R

#### **RADIATION PATTERN**



## PACKAGE CONFIGURATION



Tolerance ± 0.25 mm

## ABSOLUTE MAXIMUM RATINGS AT Ta = 25 $^\circ\!\mathrm{C}$

//BOOL			PARAMET				MA	AX.		UNIT
Power Dis	sipation (	Pd)					8	0		mW
Continuou	Continuous Forward Current (IF)							30		
Peak Forv	vard Curre	ent (1/10	Duty Cycl	e,10ms Pulse	Width ) (IFP)		160 5			
Reverse \	/oltage (V	R)					į	5		V
Derating L	inear Fro	<b>m 50</b> ℃				0.4				mA/⁰C
Operating	Temperat	ure Rang	e (Topr)			$-$ 30 $^\circ\!\mathrm{C}$ to $+$ 85 $^\circ\!\mathrm{C}$				
Storage T	emperatur	e Range	(Tstg)				$-$ 40 $^\circ \!\!\! \mathbb{C}$ to $+$ 100 $^\circ \!\!\! \mathbb{C}$			
Lead Solo	ler Tempe	erature 1.6	3 mm Belo	w Package 260	$^\circ\!\mathbb{C}$ for 5 seco	nds (Tsl	d)			
ELECTR	CAL / OF	TICAL (	CHARACT	ERISTICS AT	Ta = 25 ℃					
SYMBOL	F	PARAMET	ER	TEST COND.	MIN.	T	YP.	Ν	IAX.	UNIT
VF	Forward	Voltage		l F = 20 mA		2	.1	:	2.8	V
l r	Reverse	Current		V R = 5V			100			$\mu A$
λp	Peak Em	ission Wa	velength	l		6	31			n m
λd	Dominan	t Waveler	ngth	l		6	624			n m
2 <i>θ</i> 1/2	Viewing	Angle		l		100/30			Deg	
IV	Luminous Intensity		l F = 20 mA	1300	1680			mcd		
BIN GRADE LIMITS (IF=20 mA) BIN GRADE LIMITS (IF=20 mA)										0 mA)
LUMINOUS INTENSITY / mcd				DOM	INANT	WAVE	ELENGT	H / nm		
Bin	K	L	М			Bin	QD	QE	QF	QG
Min.	1300	1680	2180			Min.	618	622	626	630
Max.	1680	2180	2800			Max.	622	626	630	634
				Tolerance + 1	5% mod					

Tolerance ± 15%mcd

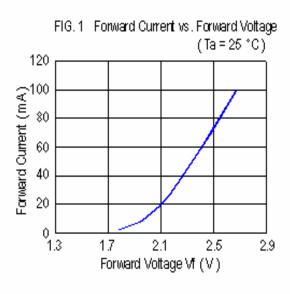
\*Bright View reserves the rights to alter specifications and remove availability of products at any time without notice.

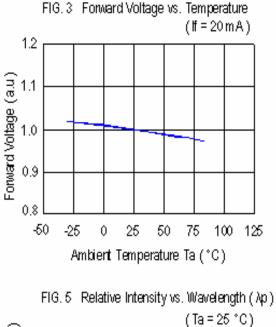
\*Dominant Wavelength,  $\lambda d$  is according to CIE Chromaticity Diagram base on color of lamps.

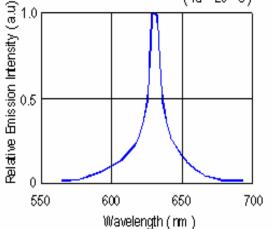
\*  $\theta$  1/2 is the off-axis angle where the luminous intensity is one half the on-axis intensity.

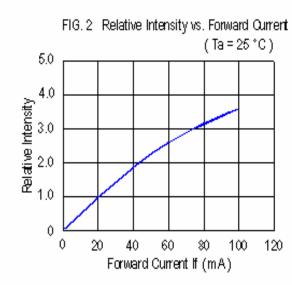
# **BVU-539QG9**

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

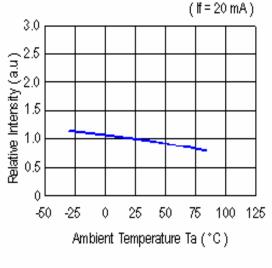




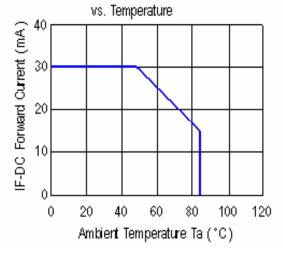












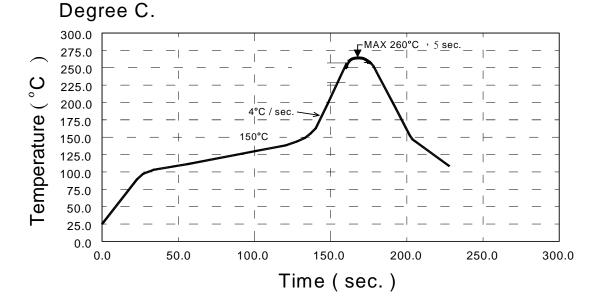


## **BVU-539QG9**

### Apply to LAMP(DIP) series.

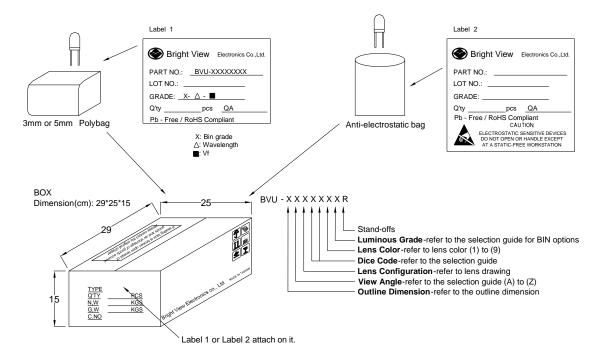
Description:

- (1) Manual soldering (Solder Iron)
  - (1.1) Temperature at tip of the iron: 300°C Max.
  - (1.2) It's banned to load any stress on the resin during soldering.
  - (1.3) Soldering time: 3 sec. Max.(one time only)
  - (1.4) Leave 3mm of minimum distance from the base of epoxy.
- (2) Dip Soldering(Wave soldering-Solder Bath)
  - (2.1) Leave 3mm of minimum distance from the base of the epoxy. Soldering beyond the base of the tie bar(stand off) is recommended.
  - (2.2) When soldering, do not put stress on the LEDs during heating.
  - (2.3) Cutting the leadframes at high temperatures may cause LED failure.
  - (2.4) Never take next process until the component is cooled down to room temperature after reflow.
  - (2.5) After soldering, do not warp the circuit board.
  - (2.6) The recommended dip soldering profile is the following:

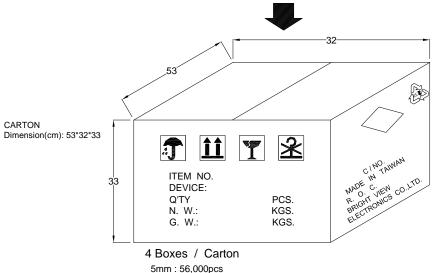




## **BVU-539QG9**



Device	Q'ty / Polybag (pcs)	Polybag / Box A	Fig.
5mm(T-1 3/4)	1000pcs	14 bags	Label 1
3mm(T-1)	1000pcs	20 bags	Label 1
Blue / Green / White	500pcs	18 bags	Label 2



5mm : 56,000pcs 3mm : 80,000pcs

Blue / Green / White : 36,000pcs