BRIGHT VIEW
ELECTRONICS CO.,LTD

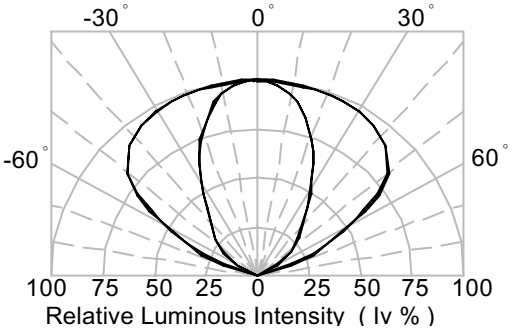
OVAL LED LAMP

BVU-429TH9

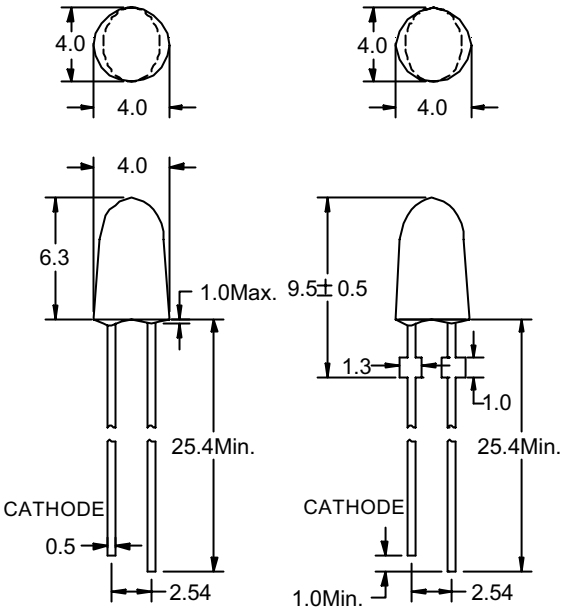
DESCRIPTION

Dice Material : AlGaInP/GaAs Yellow
Light Color : Yellow Color
Lens Color : Yellow Tinted Diffused
Stand-Off P/N : BVU-429TH9 R
Lead Frame Material: Copper

RADIATION PATTERN



PACKAGE CONFIGURATION



Leadframe orientation perpendicular

Tolerance ±0.25 ㎜

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 ℃

PARAMETER	MAX.	UNIT
Power Dissipation	75	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 ℃	0.4	mA/°C
Operating Temperature Range	−40 ℃ to + 100 ℃	
Storage Temperature Range	−40 ℃ to + 100 ℃	
Lead Solder Temperature 1.6 mm Below Package 260 ℃ for 5 seconds		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 ℃

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V_F	Forward Voltage	I_F = 20 mA		1.9	2.4	V
I_R	Reverse Current	V_R= 5V			100	μA
λ_p	Peak Emission Wavelength	I_F = 20 mA		592		n m
λ_d	Dominant Wavelength	I_F = 20 mA		590		n m
$2\theta 1/2$	Viewing Angle	I_F = 20 mA		120/60		Deg

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

Bin	G	H	I	J	K	L
Min.	465	600	780	1000	1300	1680
Max.	600	780	1000	1300	1680	2180

Tolerance ±15%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.
* θ 1/2 is the off-axis angle where the luminous intensity is one half the on-axis intensity.

AlGaInP / GaAs LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

FIG. 1 Forward Current Vs. Forward Voltage

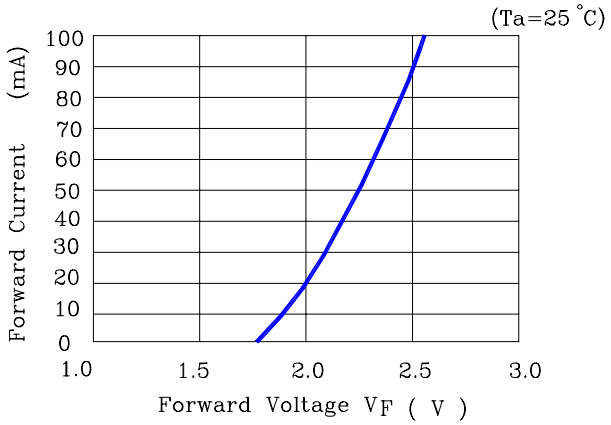


FIG. 2 Relative Intensity Vs. Forward Current

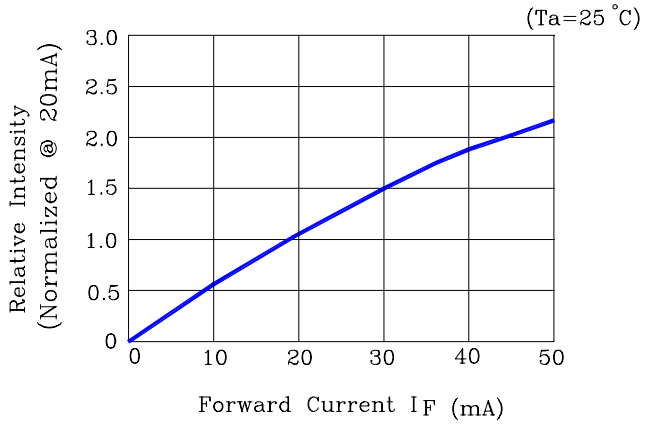


FIG. 3 Forward Voltage VS. Temperature

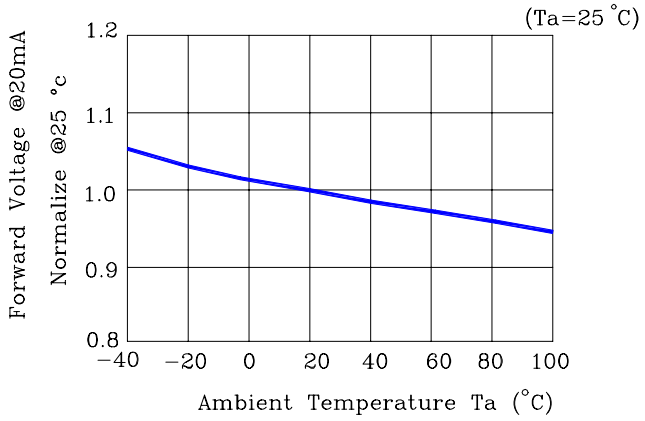


FIG. 4 Relative Intensity vs. Temperature

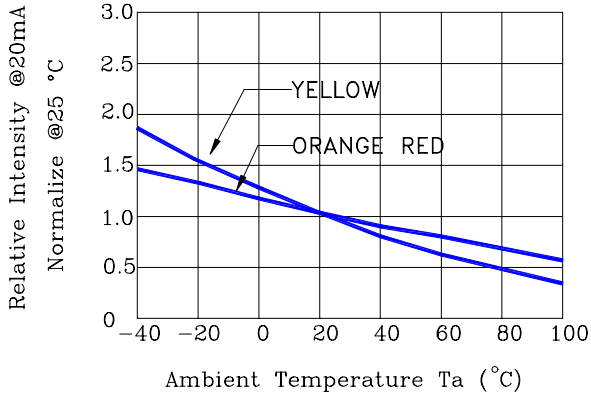


FIG. 5 Relative Intensity vs. Wavelength (λ p)

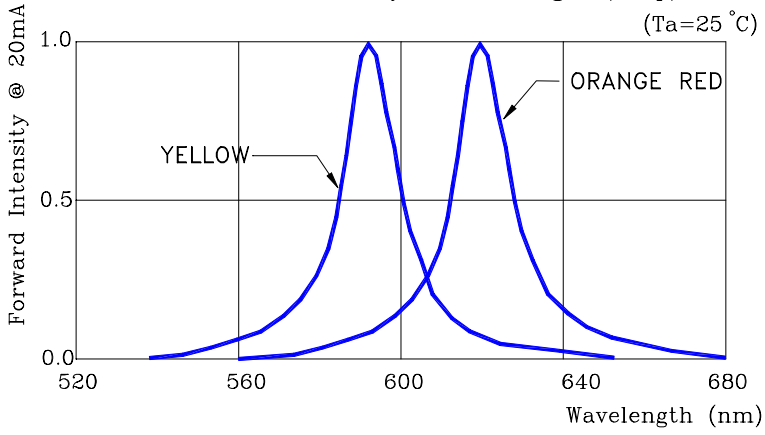
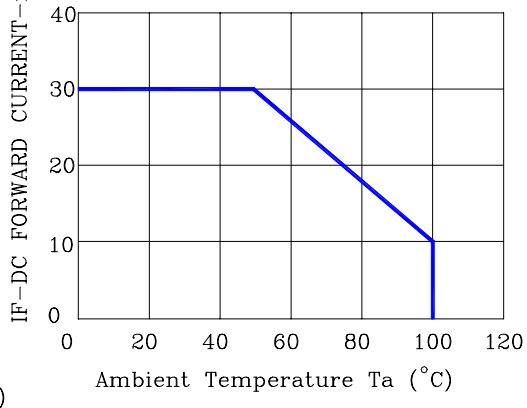


FIG. 6 Maximum Forward Current vs. Ambient Temperature. Derating Based on T_{JMAX}=130° C



2005/02/03 −B

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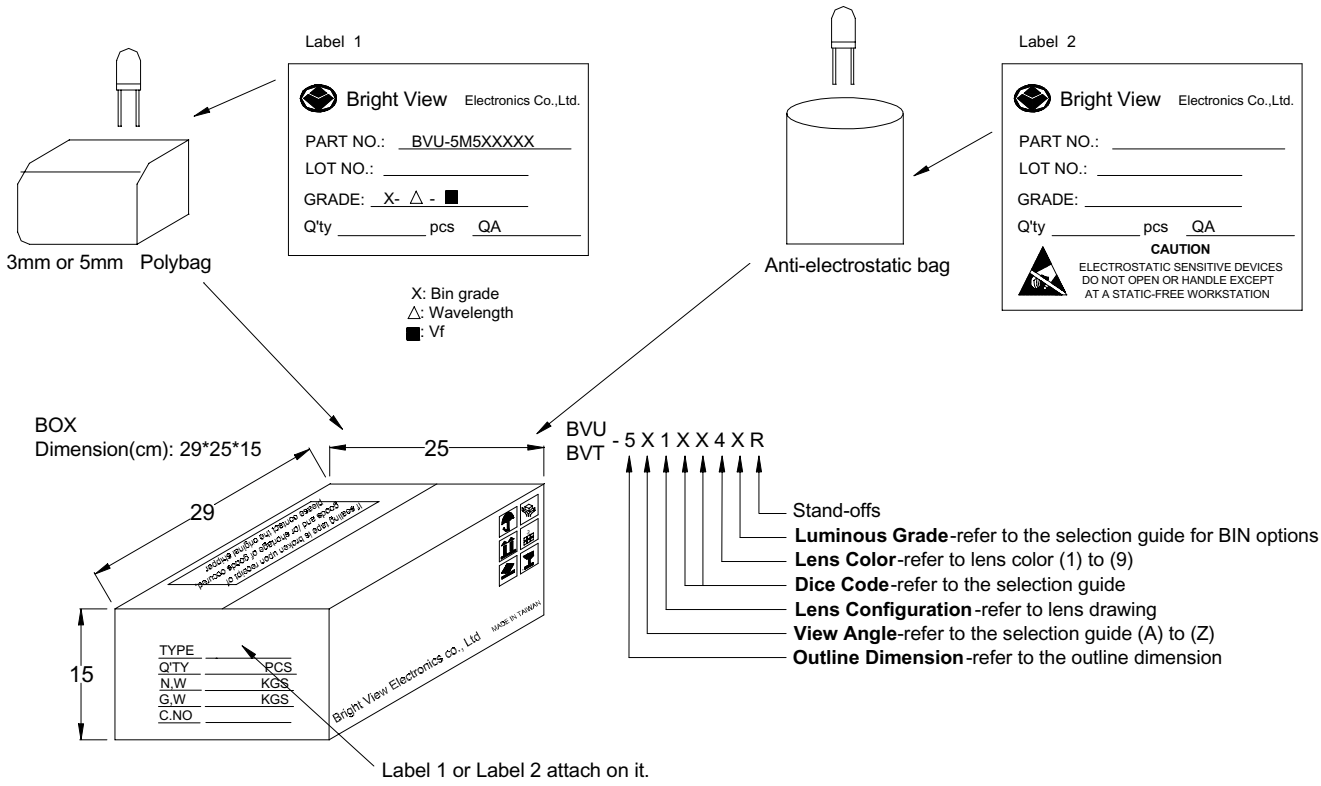
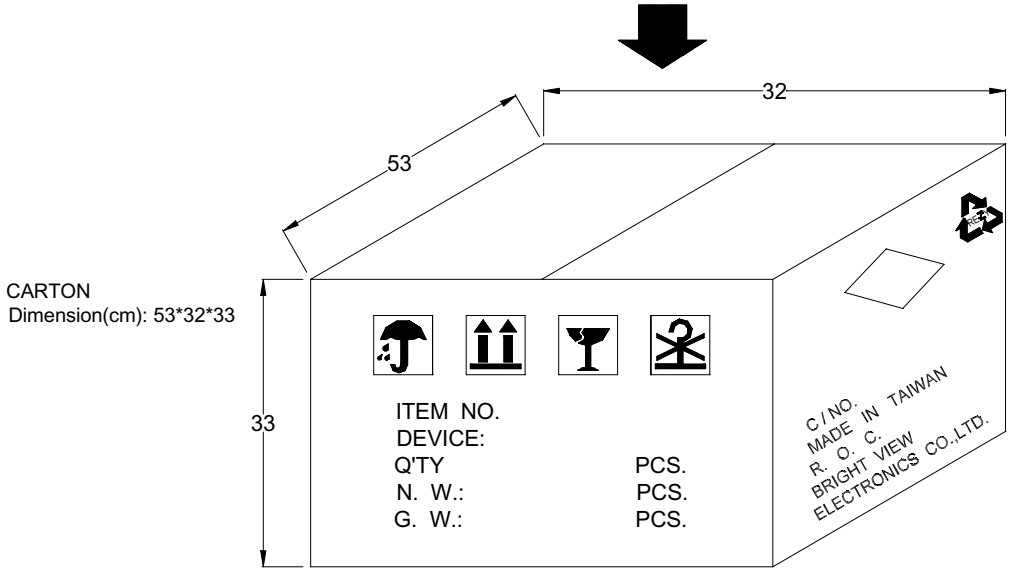
LAMP PACKING



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



4 Boxes / Carton

5mm : 56,000pcs

3mm : 80,000pcs

Blue / Green / White : 36,000pcs

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