

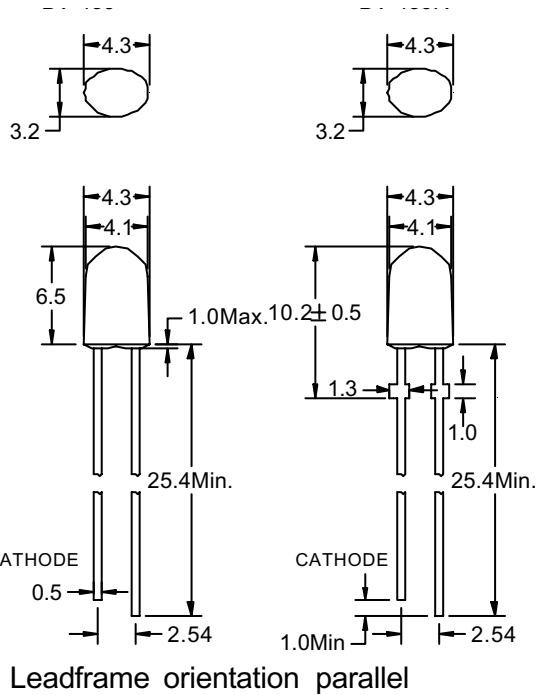


BVU-439TH9

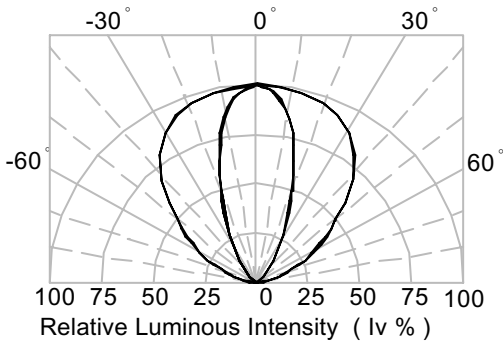
PACKAGE CONFIGURATION

DESCRIPTION

Dice Material : AlGaInP/GaAs Yellow
Light Color : Yellow Color
Lens Color : Yellow Tinted Diffused
Stand-Off P/N : BVU-439TH9 R



RADIATION PATTERN



Tolerance ± 0.25 mm

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C

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 °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 Ta = 25 °C

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	μ A
λ p	Peak Emission Wavelength	I F = 20 mA		592		n m
λ d	Dominant Wavelength	I F = 20 mA		590		n m
2θ 1/2	Viewing Angle	I F = 20 mA		100/40		Deg

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

Bin	H	I	J	K	L	M
Min.	600	780	1000	1300	1680	2180
Max.	780	1000	1300	1680	2180	2800

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

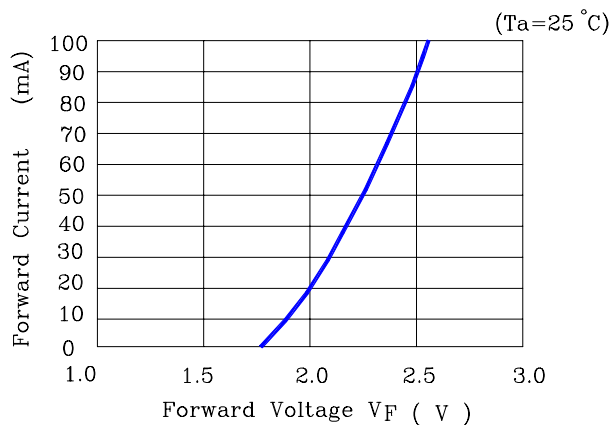


FIG. 2 Relative Intensity Vs. Forward Current

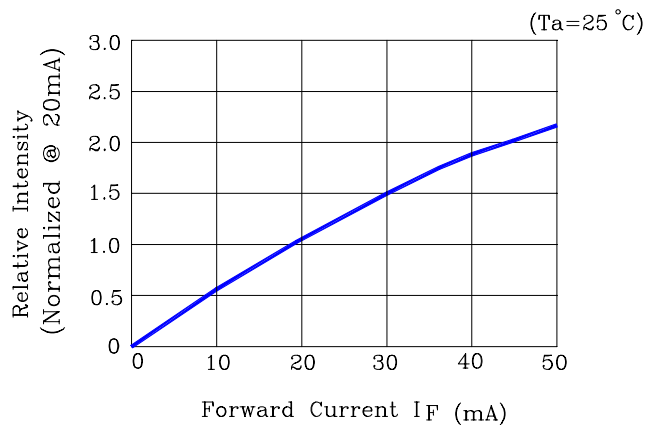


FIG. 3 Forward Voltage VS. Temperature

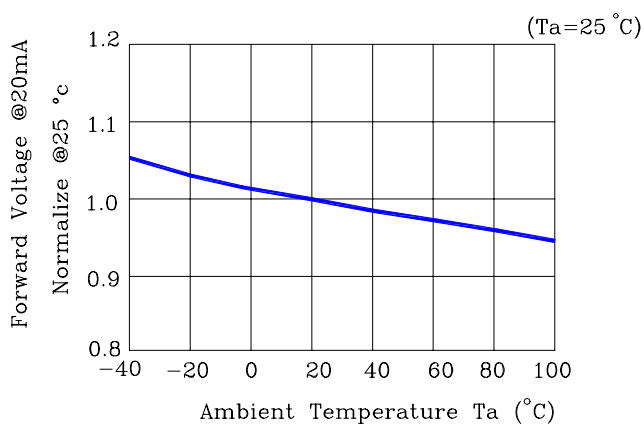


FIG. 4 Relative Intensity vs. Temperature

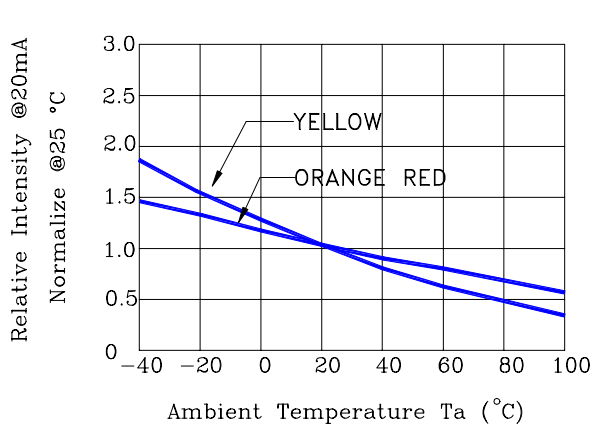


FIG. 5 Relative Intensity vs. Wavelength (λ_p)

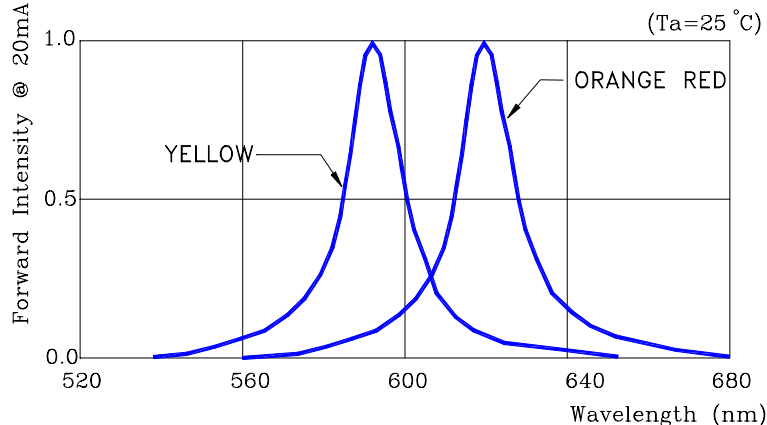
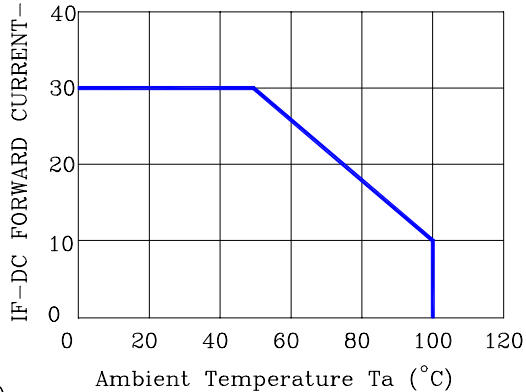


FIG. 6 Maximum Forward Current vs. Ambient Temperature. Derating Based on $T_{JMAX}=130^{\circ}C$

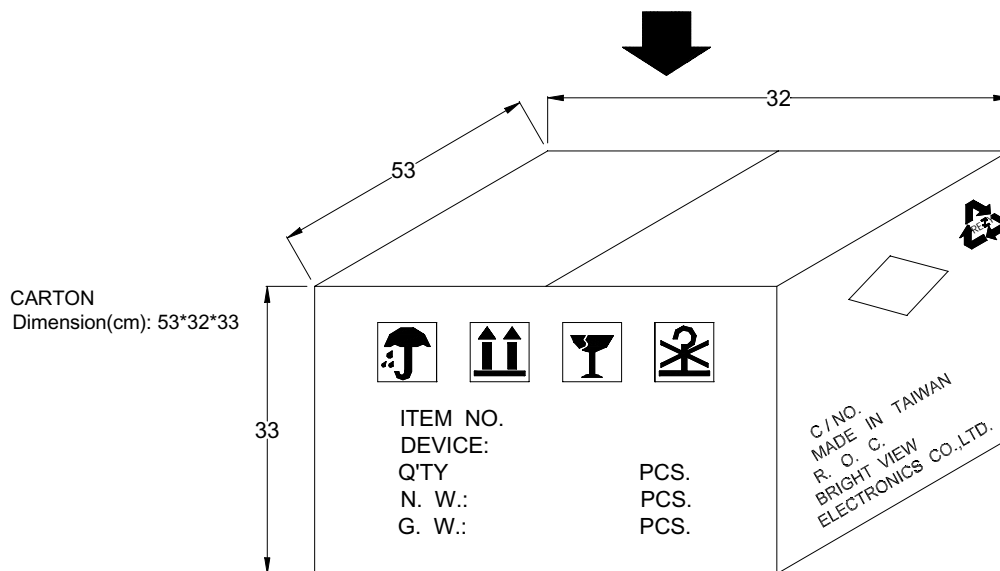




LAMP PACKING



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