BRIGHT VIEW
ELECTRONICS CO.,LTD

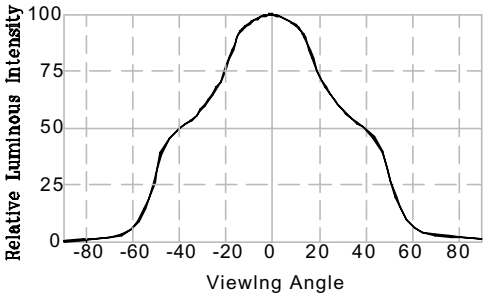
SUPER FLUX LED

BVZ-922QT4

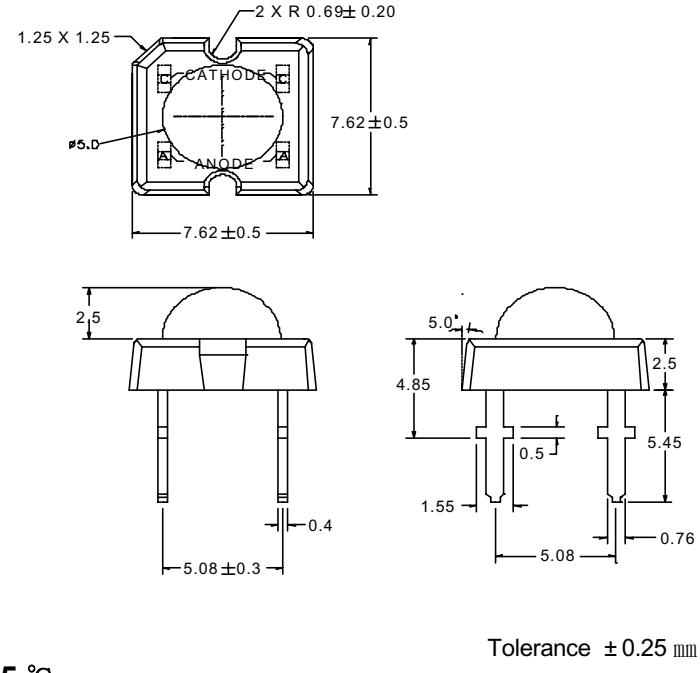
DESCRIPTION

Dice Material : AlInGaP Red
Light Color : Red Color
Lens Color : Water Transparent

RADIATION PATTERN



PACKAGE CONFIGURATION



Tolerance ±0.25 ㎜

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 ℃

PARAMETER	MAX.	UNIT
Power Dissipation	224	mW
Continuous Forward Current	70	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width)	100	mA
Reverse Voltage	5	V
Derating Linear From 50°C	0.9	mA/°C
Operating Temperature Range	−40 to + 100	°C
Storage Temperature Range	−55 to + 100	°C
LED Junction Temperature	125	°C
Soldering Preheat Temperature	100 °C for 30 seconds	
Lead Solder Temperature (1.5mm Below Seating Plane)	260 °C for 5 seconds	

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 ℃

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V_F	Forward Voltage	I_F = 70mA		2.6	3.2	V
I_R	Reverse Current	V_R = 5V			100	μA
λp	Peak Emission Wavelength	I_F = 70mA		640		nm
λd	Dominant Wavelength	I_F = 70mA		630		nm
2θ1/2	Viewing Angle	I_F = 70mA		80		Deg
IV/ΦV	Luminous Intensity / Total Flux			0.6		cd/lm
$R\theta_{j\text{-}pin}$	Thermal Resistance			125		°C/W

BIN GRADE LIMITS (I F = 70 mA) Total Flux / lm

Bin	E	F	G	H	I	J
Min.	2.2	2.8	3.6	4.7	6.0	7.8
Max.	2.8	3.6	4.7	6.0	7.8	10.0

Tolerance ± 15%lm

*Bright View reserves the rights to alter specifications and remove availability of products at any time without notice.
*Dominant Wavelength, λd is according to CIE Chromaticity Diagram base on color of the device.
* θ 1/2 is the off-axis angle where the luminous intensity is one half the on-axis intensity.

2004/3/25 – A

AlInGaP LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

FIG. 1 Forward Current Vs. Forward Voltage

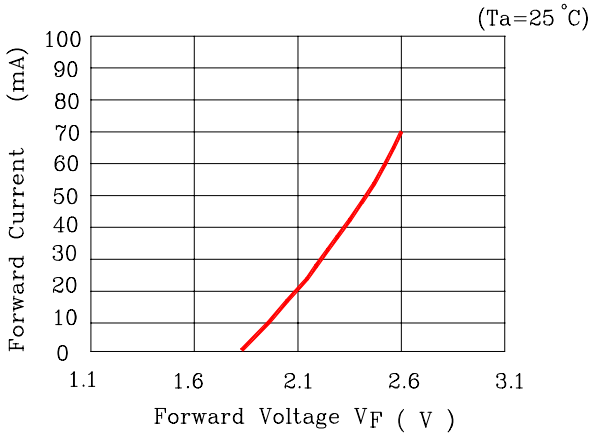


FIG. 2 Relative Total Flux Vs. Forward Current

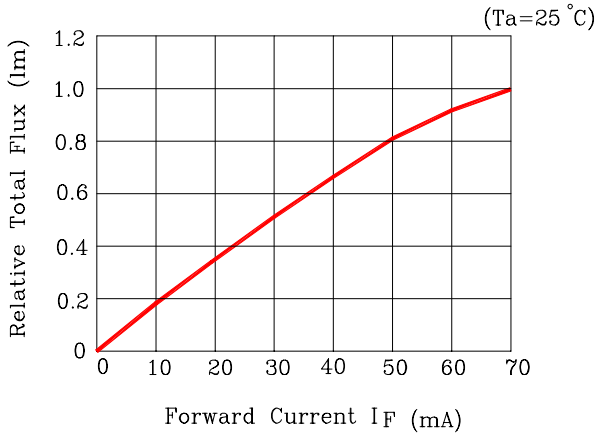


FIG. 3 Forward Voltage VS. Temperature

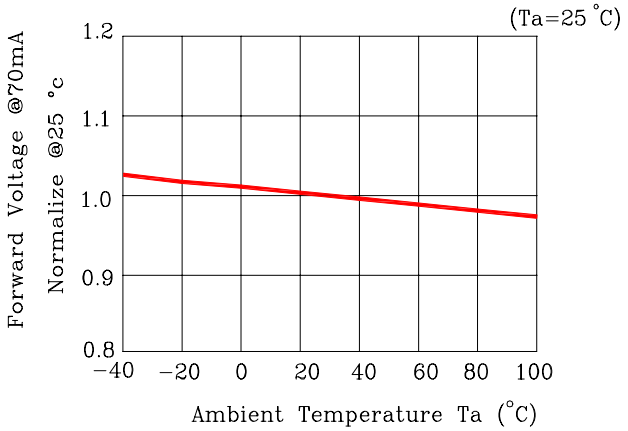


FIG. 4 Relative Total Flux vs. Temperature

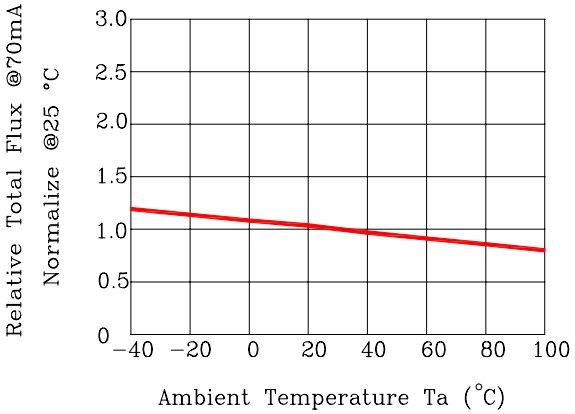


FIG. 5 Relative Intensity vs. Wavelength (λ p)

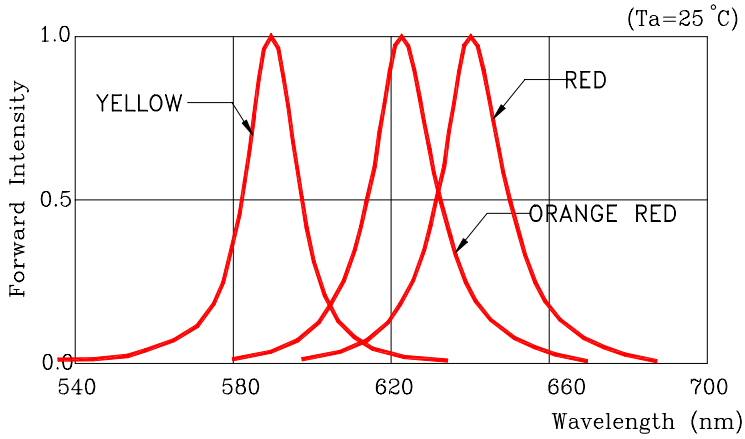
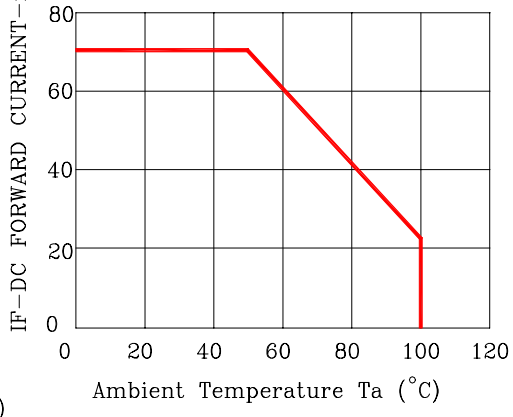
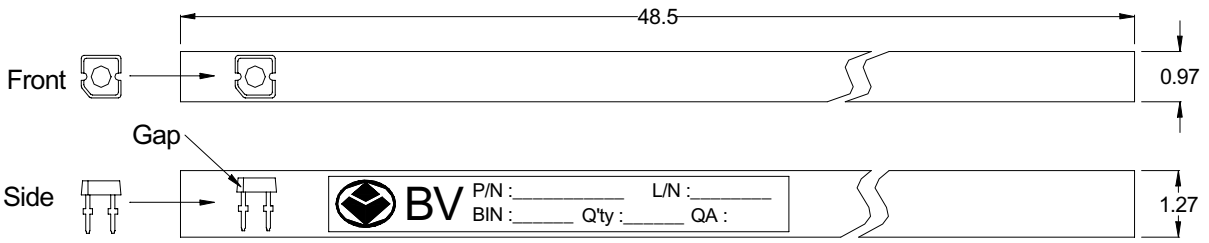


FIG. 6 Maximum Forward Current vs. Ambient Temperature. Derating Based on T_{JMAX}=125° C

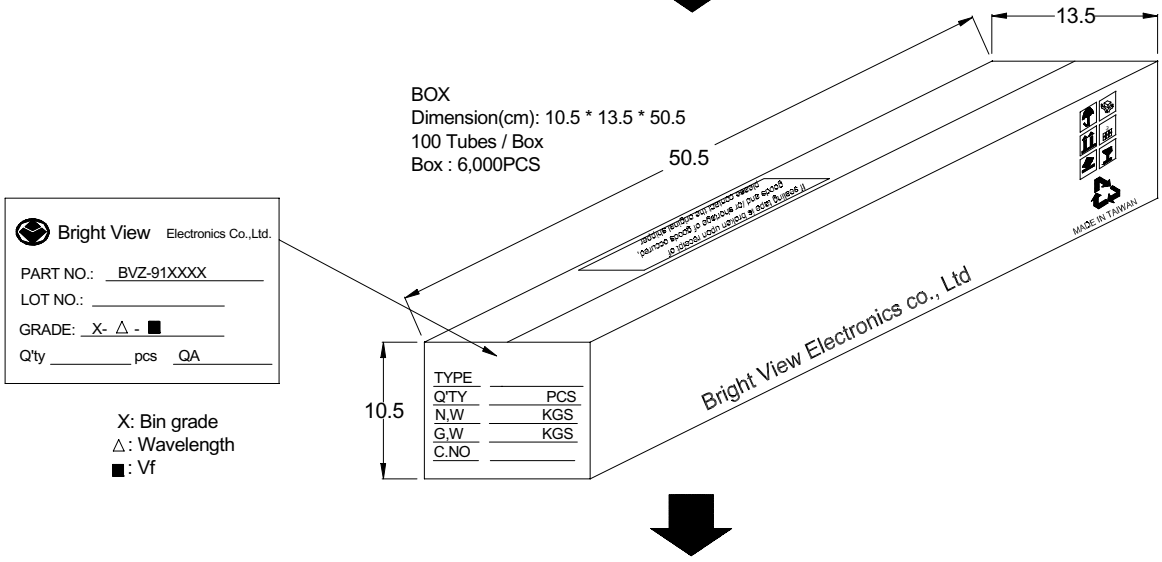


BRIGHT VIEW
ELECTRONICS CO.,LTD

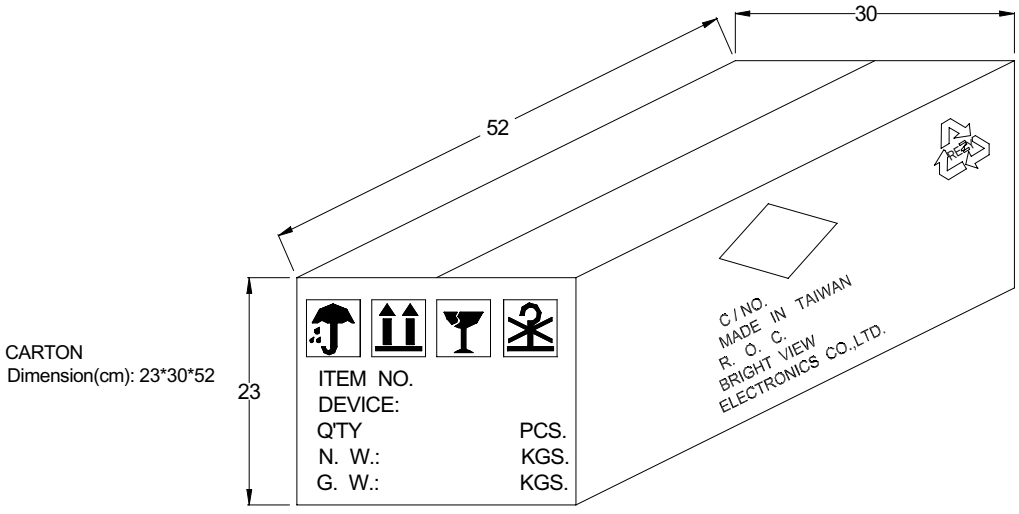
SUPER FLUX PACKING



Tube
Dimension(cm): 1.27* 0.97* 48.5
60PCS / Tube



X: Bin grade
△: Wavelength
■: Vf



CARTON
Dimension(cm): 23*30*52

4 Boxes / Carton
Total : 24,000PCS