



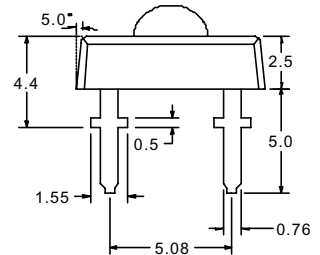
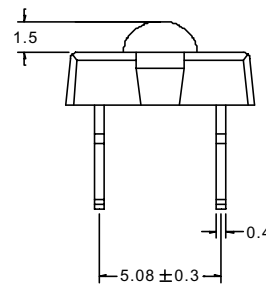
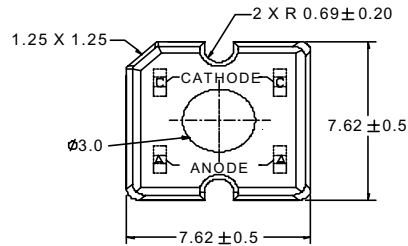
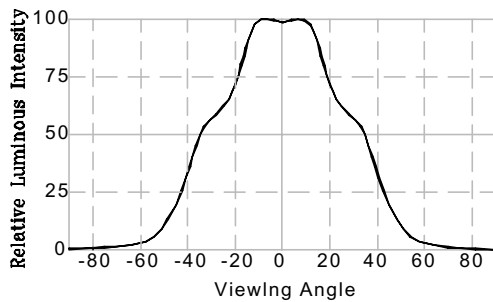
BVZ-916TH4

PACKAGE CONFIGURATION

DESCRIPTION

Dice Material : AlGaInP Yellow
Light Color : Yellow Color
Lens Color : Water Transparent

RADIATION PATTERN



Tolerance ± 0.25 mm

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

PARAMETER	MAX.	UNIT
Power Dissipation	190	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	mW/ $^\circ\text{C}$
Operating Temperature Range	-40 to $+100$	$^\circ\text{C}$
Storage Temperature Range	-55 to $+100$	$^\circ\text{C}$
LED Junction Temperature	125	$^\circ\text{C}$
Soldering Preheat Temperature	100 $^\circ\text{C}$ for 30 seconds	
Lead Solder Temperature (1.5mm Below Seating Plane)	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_F	Forward Voltage	$I_F = 70\text{mA}$		2.1	2.7	V
I_R	Reverse Current	$V_R = 5\text{V}$			100	μA
λ_p	Peak Emission Wavelength	$I_F = 70\text{mA}$		594		nm
λ_d	Dominant Wavelength	$I_F = 70\text{mA}$		592		nm
$2\theta_{1/2}$	Viewing Angle	$I_F = 70\text{mA}$		70		Deg
I_V / Φ_V	Luminous Intensity / Total Flux			0.7		cd/lm
$R_{\theta_{j-pin}}$	Thermal Resistance			125		$^\circ\text{C/W}$

BIN GRADE LIMITS ($I_F = 70\text{mA}$) Total Flux / lm

Bin	D	E	F	G	H	I
Min.	1.7	2.2	2.8	3.6	4.7	6.0
Max.	2.2	2.8	3.6	4.7	6.0	7.8

Tolerance $\pm 15\%$ lm

*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 the device.

* $\theta_{1/2}$ 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

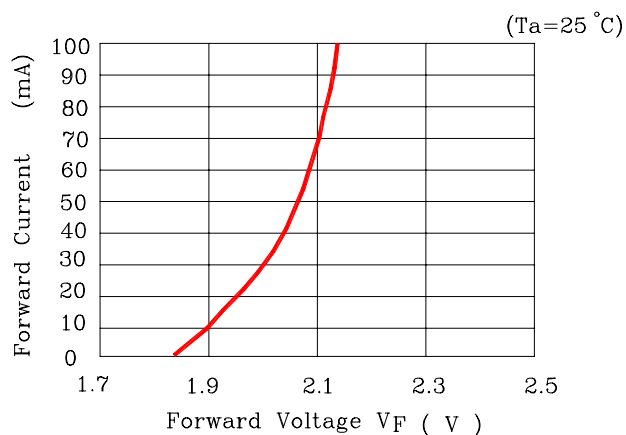


FIG. 2 Relative Total Flux Vs. Forward Current

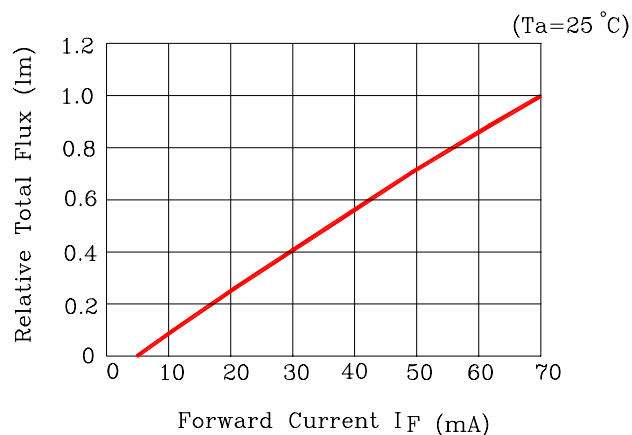


FIG. 3 Forward Voltage VS. Temperature

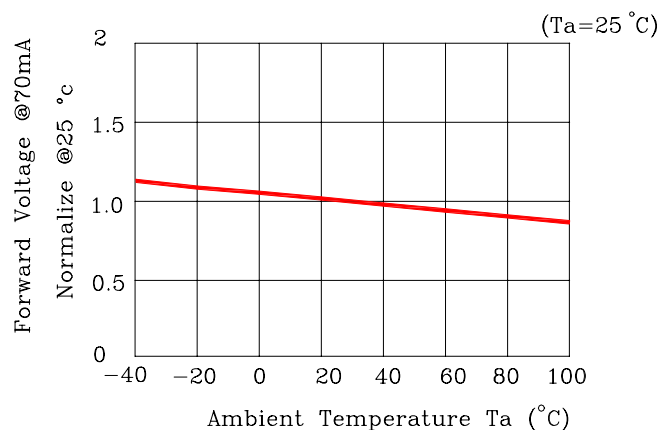


FIG. 4 Relative Total Flux vs. Temperature

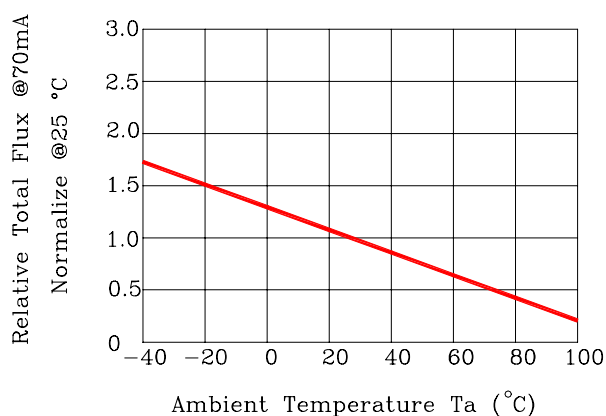


FIG. 5 Relative Intensity vs. Wavelength (λ p)

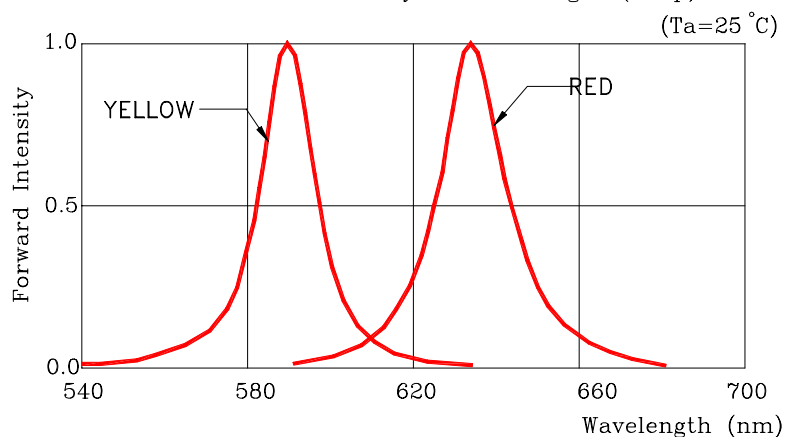
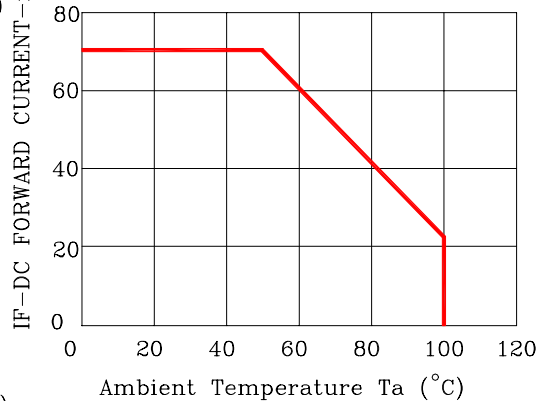
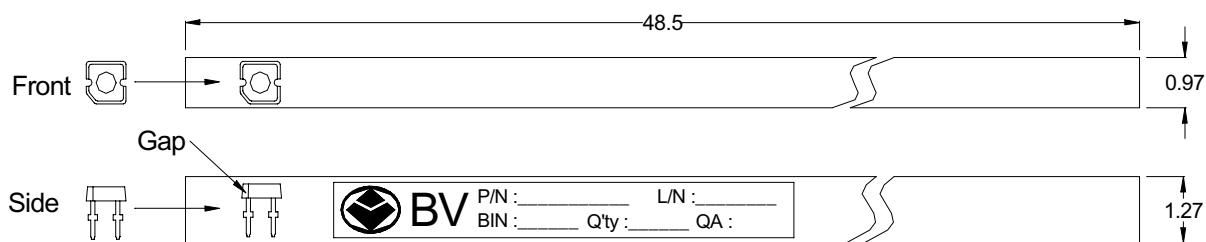


FIG. 6 Maximum Forward Current vs. Ambient Temperature. Derating Based on T_{JMAX}=125 °C





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

