

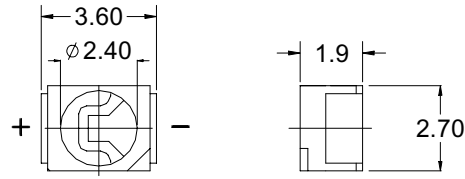


**BVS-301UG4#**

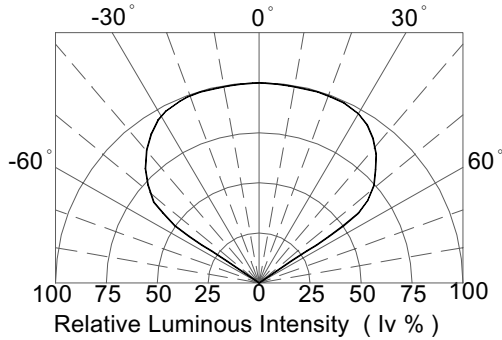
**PACKAGE CONFIGURATION**

**DESCRIPTION**

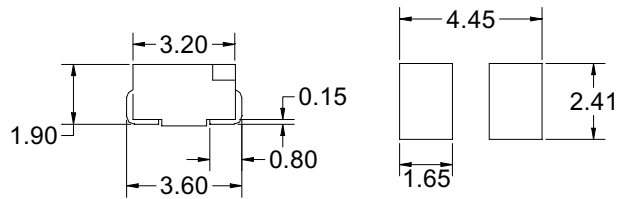
Dice Material : AlGaInP/GaAs Yellow Green  
Light Color : Yellow Green Color  
Lens Color : Water Transparent



**RADIATION PATTERN**



**INFRARED/VAPOR PHASE  
REFLOW SOLDERING**



Tolerance ± 0.25 mm

**ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C**

PARAMETER	MAX.	UNIT
Power Dissipation	65	mW
Continuous Forward Current	25	mA
Peak Forward Current ( 1/10 Duty Cycle , 0.1ms Pulse Width )	80	mA
Reverse Voltage	5	V
Derating Linear From 50 °C	0.35	mA/°C
Operating Temperature Range	-40 to + 100	°C
Storage Temperature Range	-40 to + 100	°C
Infrared Soldering Condition 230 °C for 40 seconds		

**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 °C**

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 10 mA		1.9	2.5	V
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 20 mA		2	2.6	V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 5V			100	μA
λ <sub>p</sub>	Peak Emission Wavelength	I <sub>F</sub> = 20 mA		575		nm
λ <sub>d</sub>	Dominant Wavelength	I <sub>F</sub> = 20 mA		572		nm
2θ <sub>1/2</sub>	Viewing Angle	I <sub>F</sub> = 20 mA		110		Deg

**BIN GRADE LIMITS ( I F = 10 mA ) LUMINOUS INTENSITY / mcd**

Device	<input type="checkbox"/> BVS-301UG4C	<input type="checkbox"/> BVS-301UG4D	<input type="checkbox"/> BVS-301UG4E	<input type="checkbox"/> BVS-301UG4F								
Bin	u	v	w	x	y	z	A	B	C	D	E	F
Min.	22	28	36	47	60	78	100	130	168	218	280	360
Max.	28	36	47	60	78	100	130	168	218	280	360	465

Tolerance ± 15% mcd

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

\*Dominant Wavelength, λ<sub>d</sub> is according to CIE Chromaticity Diagram base on color of lamps.

\*θ<sub>1/2</sub> is the off-axis angle where the luminous intensity is one half the on-axis intensity.