

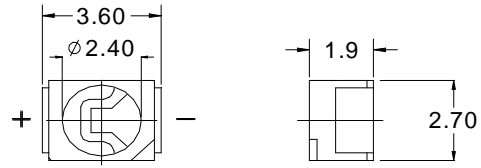


**BVS-301QS4**

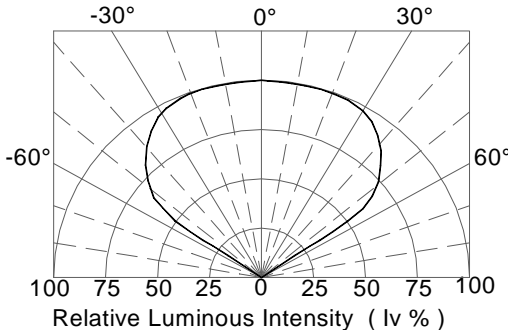
**PACKAGE CONFIGURATION**

**DESCRIPTION**

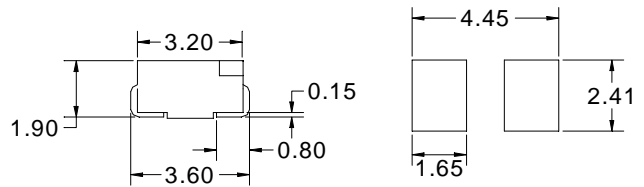
Dice Material : AlGaInP/GaAs Amber  
Light Color : Amber Color  
Lens Color : Water Transparent



**RADIATION PATTERN**



**INFRARED/VAPOR PHASE REFLOW SOLDERING**



Tolerance ± 0.25 mm

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

PARAMETER	MAX.	UNIT
Power Dissipation	95	mW
Continuous Forward Current	35	mA
Peak Forward Current ( 1/10 Duty Cycle , 0.1ms Pulse Width )	80	mA
Reverse Voltage	5	V
Operating Temperature Range	-40 to +100	°C
Storage Temperature Range	-40 to +100	°C
Reflow Soldering Condition 245°C for 10 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> = 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		611		nm
λ <sub>d</sub>	Dominant Wavelength	I <sub>F</sub> = 20 mA		605		nm
2θ <sub>1/2</sub>	Viewing Angle	I <sub>F</sub> = 20 mA		110		Deg

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

Bin	B	C	D	E	F	G
Min.	130	168	218	280	360	465
Max.	168	218	280	360	465	600

Tolerance ± 15% mcd

**BIN GRADE LIMITS ( I F = 20 mA ) DOMINANT WAVELENGTH / nm**

Bin	AB	AC	AD	AE
Min.	598	602	606	610
Max.	602	606	610	614

Tolerance ± 1nm

\*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.