



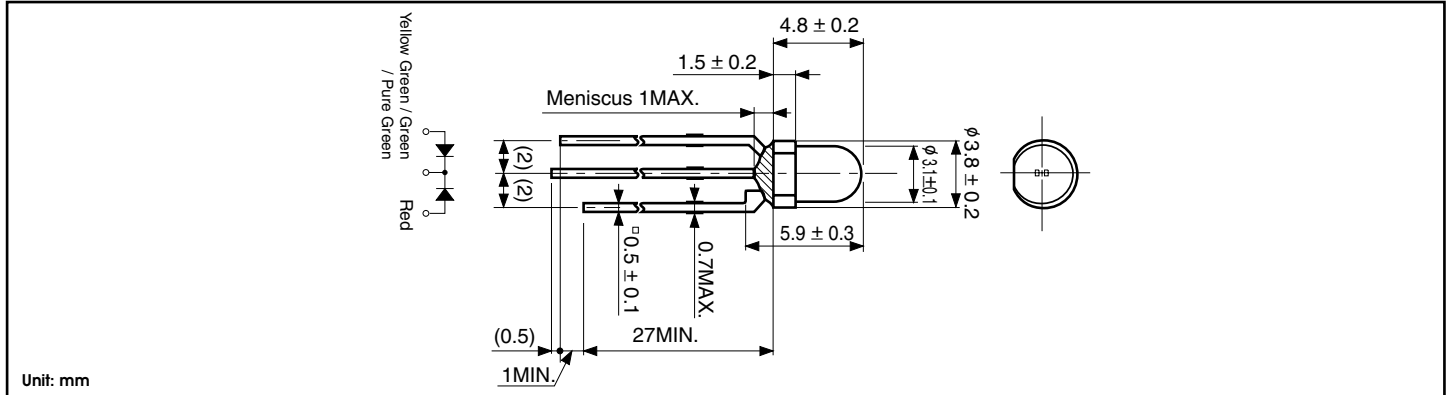
BI-COLOR LED

3mm Round Shape

3312X Series

STANDARD COLOR

Outline Dimensions



Unit: mm

Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red (VR)	Yellow Green (PY)	Red (VR)	Green (PG)	Red (VR)	Pure Green (BG)	Units	
		VRPY		VRPG		VRBG			
Power Dissipation	Pd	75		75		75		mW	
Forward Current	If	30		30		30		mA	
Peak Forward Current	IfM	100		100		100		mA	
Reverse Voltage	VR	4		4		4		V	
Operating Temperature	Topr	-30 to +85							°C
Storage Temperature	Tstg	-30 to +100							°C
Derating (DC)*	If	0.33							mA/°C

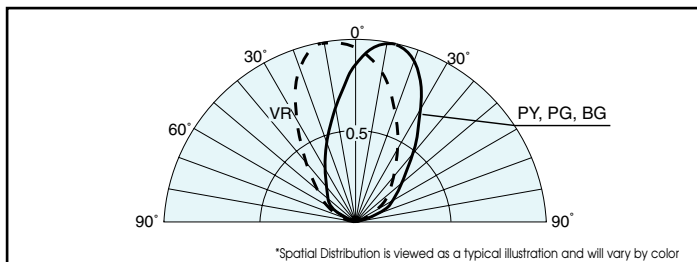
* Ta=25°C, IfM applies for the pulse width 1msec. and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

Electro-Optical Characteristics

*The viewing angle is an average and will vary by color (Ta=25°C)

Part No.	Material	Emitted Color	Lens Color	Luminous Intensity Iv			Wavelength				Forward Voltage Vf			Reverse Current Ir		Viewing Angle (2 1/2)
				MIN.	TYP.	If	Peak P TYP.	Dominant d TYP.	Spectral Line Half Width TYP.	If	TYP.	MAX.	If	MAX.	Vr	
VRPY3312X	GaAsP	Red (VR)	Diffused Milky White	4.0	8.0	20	630	624	30	20	2.0	2.5	20	20	4	60°
	GaP	Yellow Green (PY)		8.0	16.0	20	570	572	30	20	2.1	2.5	20	20	4	70°
VRPG3312X	GaAsP	Red (VR)		4.0	8.0	20	630	624	30	20	2.0	2.5	20	20	4	60°
	GaP	Green (PG)		6.0	12.0	20	560	567	30	20	2.1	2.5	20	20	4	70°
VRBG3312X	GaAsP	Red (VR)		4.0	8.0	20	630	624	30	20	2.0	2.5	20	20	4	60°
	GaP	Pure Green (BG)		3.0	6.0	20	555	558	30	20	2.1	2.5	20	20	4	70°
Units				mcd	mA	nm			mA	V	mA	µA	V	Deg.		

Spatial Distribution (x)



*Spatial Distribution is viewed as a typical illustration and will vary by color

Operation Current Derating Chart

