



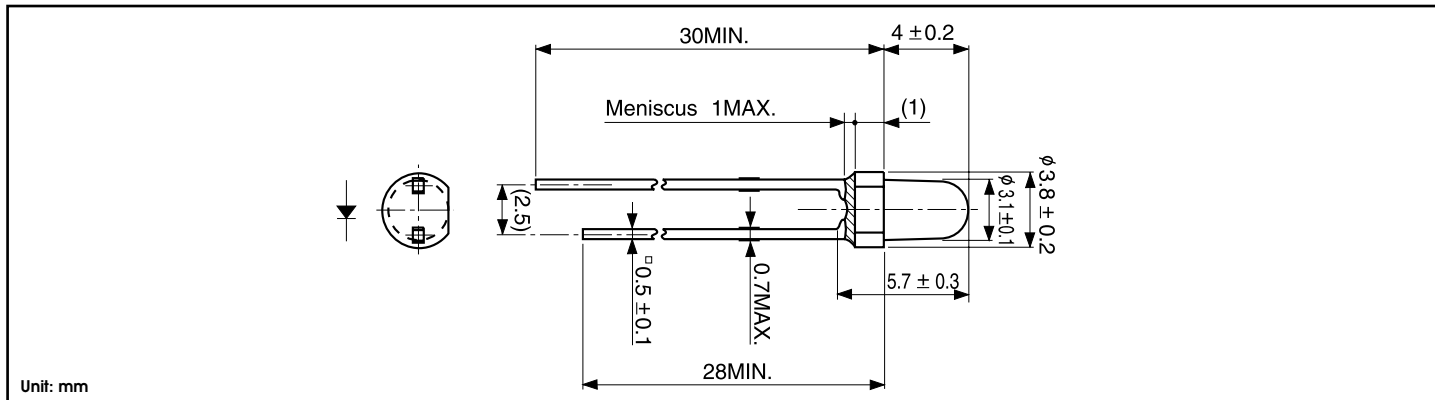
## SINGLE COLOR LED

3mm Round Shape

### 3338S Series

S T A N D A R D C O L O R

#### Outline Dimensions



#### Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red			Orange	Yellow	Yellow Green	Green	Pure Green	Units
		EBR/BR	MPR	EMVR/MVR	EMAA/MAA	EMAY/MAY	EMPY/MPY	EMPG/MPG	EMBG/MBG	
Power Dissipation	Pd	100	75	75	70	85	85	70	70	mW
Forward Current	IF	50	30	30	25	30	30	25	25	mA
Peak Forward Current	IFM	300	75	75	60	75	75	60	60	mA
Reverse Voltage	VR	4	4	4	4	4	4	4	4	V
Operating Temperature	Topr	-30 to +85								°C
Storage Temperature	Tstg	-30 to +100								°C
Derating (DC)*	IF	0.67	0.40		0.33	0.40		0.33		mA/°C

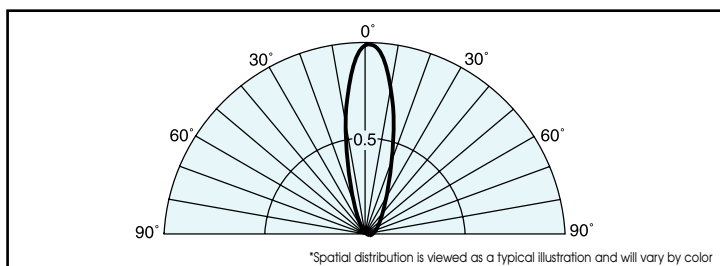
\*Ta=25°C, IFM applies for the pulse width 1msec. and duty cycle 1/20  
The current derating for operation applies when the temperature is above 25°C

#### 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 I <sub>V</sub>			Wavelength Spectral Line Dominant Half Width				Forward Voltage V <sub>F</sub>			Reverse Current I <sub>R</sub>		Viewing Angle (2 1/2)
				MIN.	TYP.	I <sub>F</sub>	Peak P TYP.	TYP.	TYP.	I <sub>F</sub>	TYP.	MAX.	I <sub>F</sub>	MAX.	V <sub>R</sub>	
EBR/BR3338X	GaAlAs	Red	Diffused Red	30/15	45/30	20	660	647	30	20	1.7	2.0	20	100	4	25°
MPR3338X	GaP			1.5	3	10	700	635	100	10	2.1	2.8	10	20	4	
EMVR/MVR3338X	GaAsP			20/10	30/20	20	630	624	30	20	2.0	2.8	20	20	4	
EMAA/MAA3338X	GaAsP	Orange	Diffused Orange	20/10	30/20	20	605	606	30	20	2.2	2.8	20	20	4	
EMAY/MAY3338X	GaAsP	Yellow	Diffused Yellow	20/10	30/20	20	580	590	30	20	2.2	2.8	20	20	4	
EMPY/MPY3338X	GaP	Yellow Green		30/15	45/30	20	570	572	30	20	2.1	2.8	20	20	4	
EMPG/MPG3338X	GaP	Green	Diffused Green	20/10	30/20	20	560	567	30	20	2.1	2.8	20	20	4	
EMBG/MBG3338X	GaP	Pure Green		8/4	12/8	20	555	558	30	20	2.1	2.8	20	20	4	
Units				mcd		mA	nm			mA	V	mA	μA	V	Deg.	

#### Spatial Distribution (x)



#### Operation Current Derating Chart

