



SINGLE COLOR LED

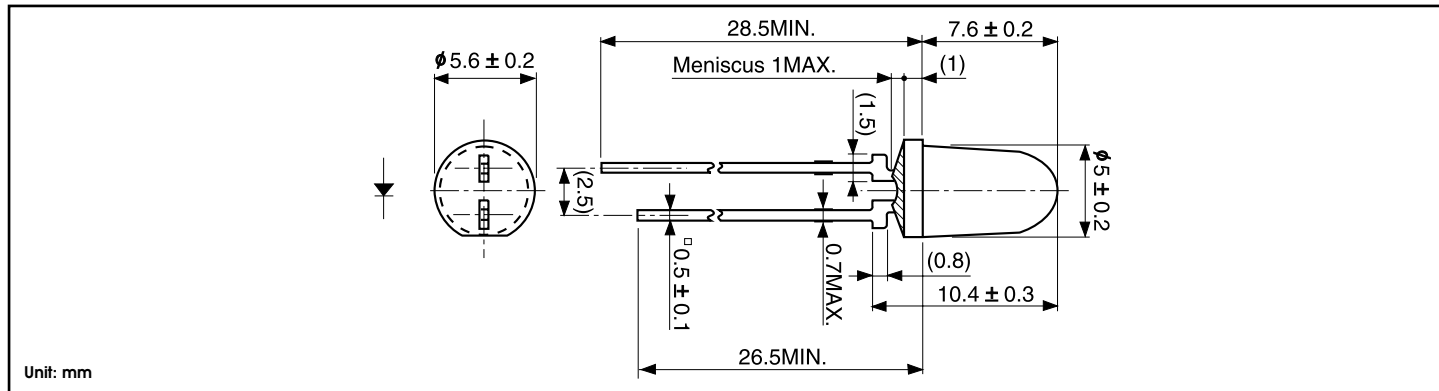
5mm Round Shape



ER-300L / ER-500L

HIGH BRIGHTNESS COLOR

Outline Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red	Units
		ER	
Power Dissipation	Pd	100	mW
Forward Current	I _F	50	mA
Peak Forward Current	I _{FM}	300	mA
Reverse Voltage	V _R	4	V
Operating Temperature	T _{opr}	-30 to 85	°C
Storage Temperature	T _{stg}	-30 to 100	°C
Derating (DC)*	I _F	0.67	mA/°C

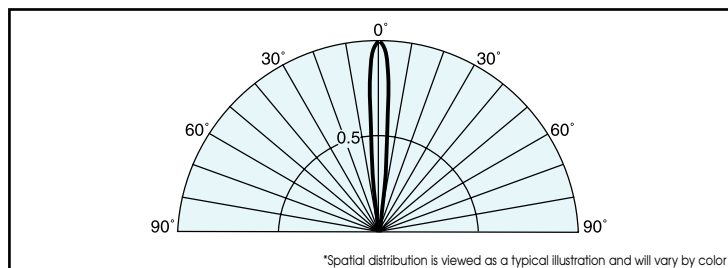
* Ta=25°C, I_{FM} applies for the pulse width 1msec. and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

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 _V			Wavelength				Forward Voltage V _F			Reverse Current I _R		Viewing Angle (2 1/2)
				MIN.	TYP.	I _F	Peak P TYP.	Dominant d TYP.	Spectral Line Half Width TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R	
ER-500L	GaAlAs	Red	Water Clear	400	500	20	660	647	30	20	1.7	2.0	20	20	4	10°
ER-300L				200	300	20	660	647	30	20	1.7	2.0	20	20	4	
Units				mcd		mA	nm			mA	V	mA	μA	V	Deg.	

Spatial Distribution (x)



Operation Current Derating Chart

