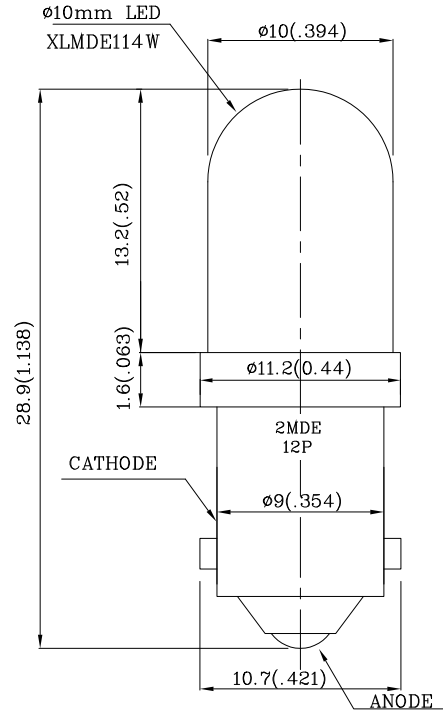


Features

- BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- LONG LIFE.
- LOW CURRENT, POWER SAVINGS.
- LOW MAINTENANCE.
- SOLID STATE, HIGH VIBRATION RESISTANT.
- 12V INTERNAL RESISTOR.
- RoHS COMPLIANT.

Notes:

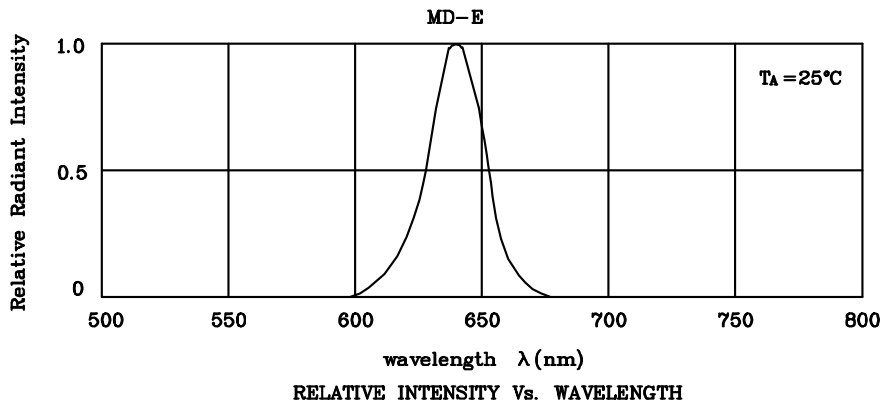
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.



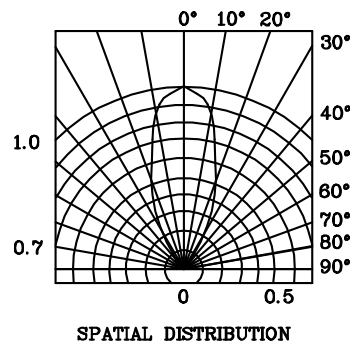
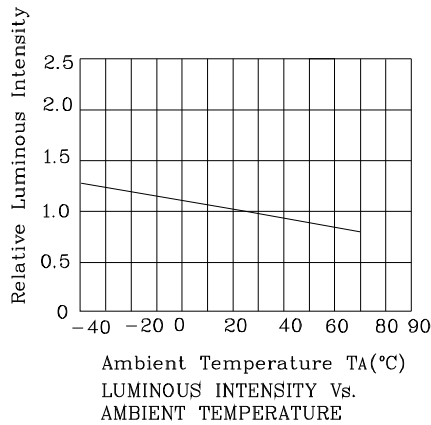
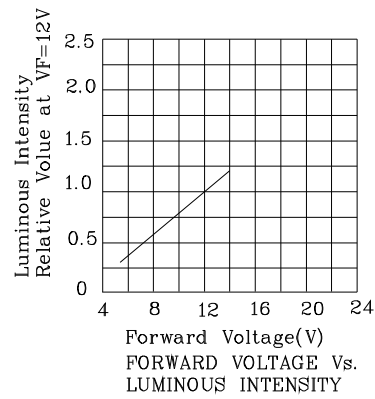
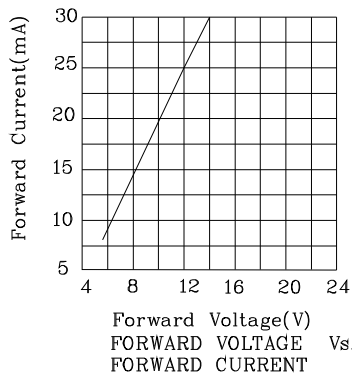
Absolute maximum ratings ($T_A=25^{\circ}\text{C}$)		MD-E (InGaAlP)	Unit
Reverse Voltage	V_R	5	V
Forward Voltage	V_F	14	V
Power Dissipation	P_T	400	mW
Operating Temperature	T_A	-40 ~ +70	°C
Storage Temperature	T_{stg}	-40 ~ +85	

Operating Characteristics ($T_A=25^{\circ}\text{C}$)		MD-E (InGaAlP)	Unit
Forward Current (Typ.) ($V_F=12\text{V}$)	I_F	25	mA
Reverse Current ($V_R=5\text{V}$)	I_R	10	μA
Wavelength of Peak Emission ($V_F=12\text{V}$)	λ_p	640	nm
Wavelength of Dominant Emission ($V_F=12\text{V}$)	λ_D	630	nm
Spectral Line Full Width At Half-Maximum ($V_F=12\text{V}$)	$\Delta\lambda$	25	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ($V=12\text{V}$) mcd		Wavelength nm λ_P	Viewing Angle $2\theta_{1/2}$
				min.	typ.		
XYMDE102W12V	Red	InGaAlP	Water Clear	650	1790	640	40°



❖ **MD-E**



Remarks:

If special sorting is required (e.g. binning based on luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%

Note: Accuracy may depend on the sorting parameters.