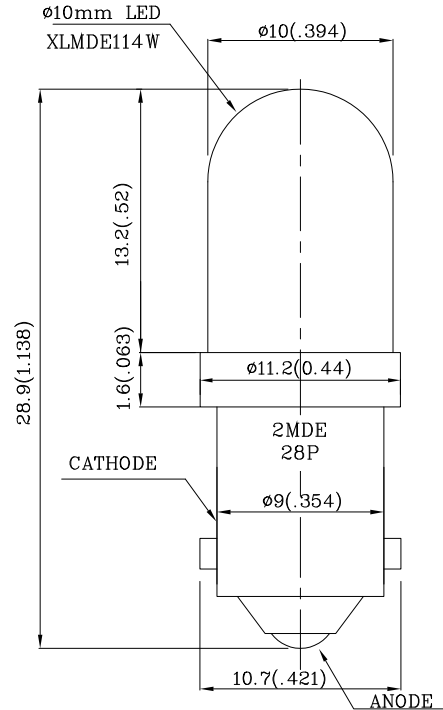


**Features**

- 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.
- 28V INTERNAL RESISTOR.
- RoHS COMPLIANT.



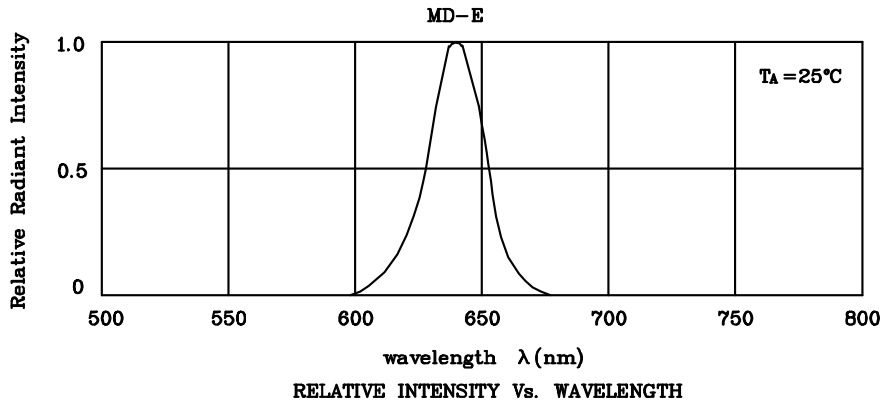
Notes:

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

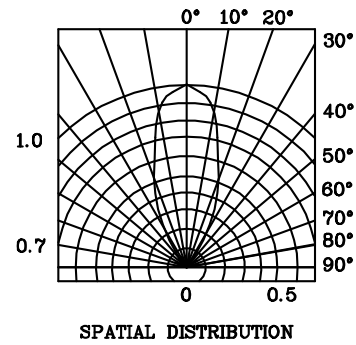
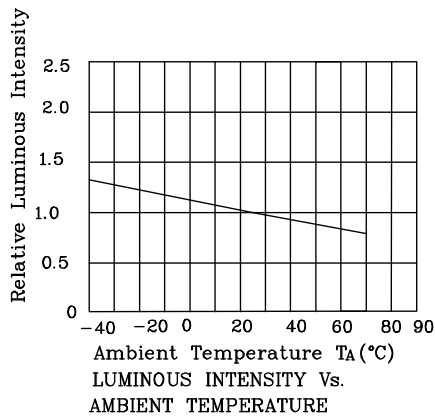
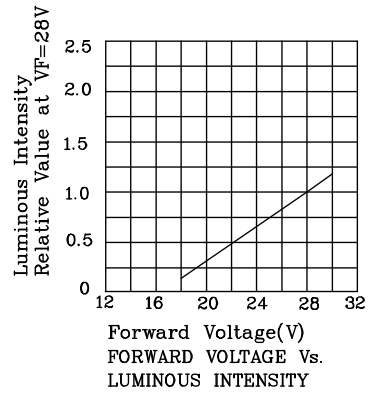
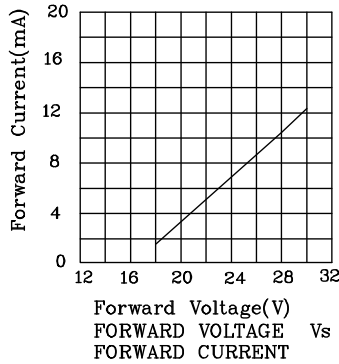
Absolute maximum ratings ( $T_A=25^\circ\text{C}$ )		MD-E (InGaAlP)	Unit
Reverse Voltage	$V_R$	5	V
Forward Voltage	$V_F$	30	V
Power Dissipation	$P_T$	400	mW
Operating Temperature	$T_A$	-40 ~ +70	°C
Storage Temperature	$T_{stg}$	-40 ~ +85	

Operating Characteristics ( $T_A=25^\circ\text{C}$ )		MD-E (InGaAlP)	Unit
Forward Current (Typ.) ( $V_F=28\text{V}$ )	$I_F$	10.5	mA
Reverse Current ( $V_R=5\text{V}$ )	$I_R$	10	$\mu\text{A}$
Wavelength of Peak Emission ( $V_F=28\text{V}$ )	$\lambda_p$	640	nm
Wavelength of Dominant Emission ( $V_F=28\text{V}$ )	$\lambda_D$	630	nm
Spectral Line Full Width At Half-Maximum ( $V_F=28\text{V}$ )	$\Delta\lambda$	25	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ( $V=28\text{V}$ ) mcd		Wavelength nm $\lambda_P$	Viewing Angle $2\theta_{1/2}$
				min.	typ.		
XYMDE102W28V	Red	InGaAlP	Water Clear	480	1295	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.