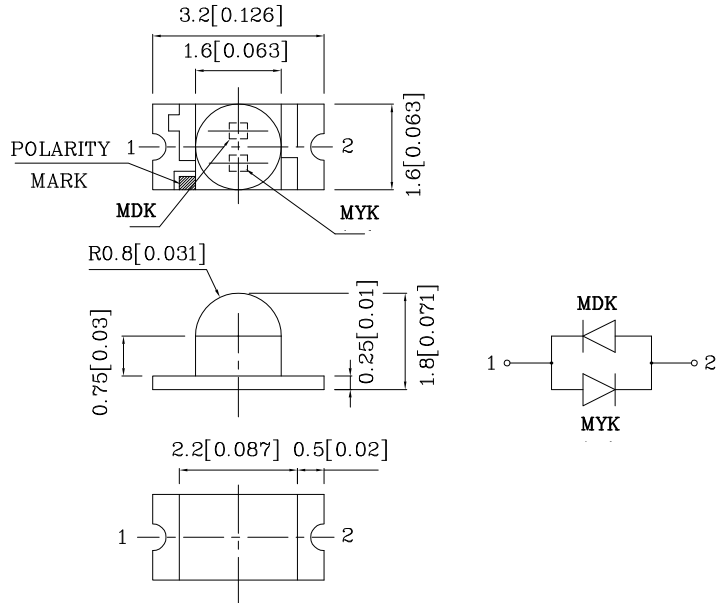


PRELIMINARY SPEC

**Features**

- 3.2mmx1.6mm SMT LED,1.8mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE : 2000PCS / REEL.
- RoHS COMPLIANT.



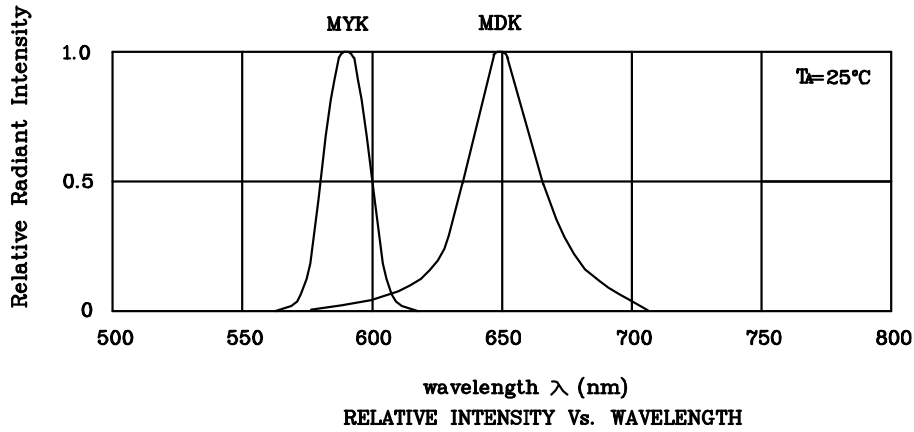
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1(0.004)$  unless otherwise noted.

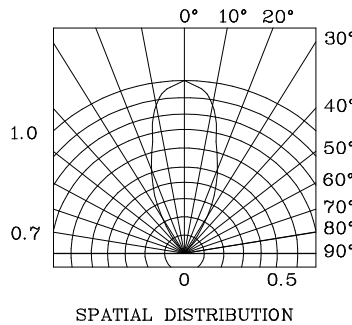
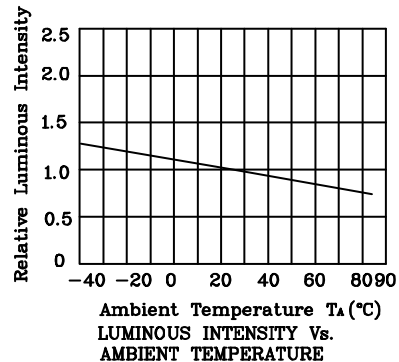
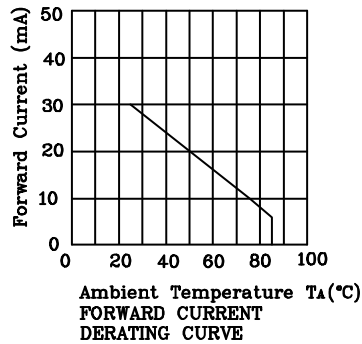
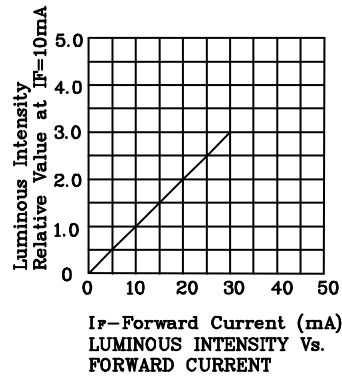
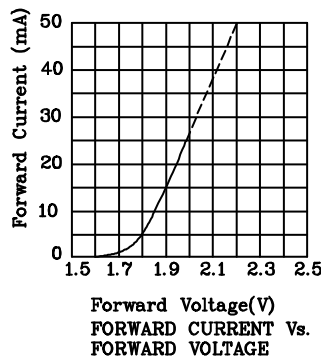
Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )		MDK (InGaAlP)	MYK (InGaAlP)	Unit
Forward Current	$I_F$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{FS}$	185	175	mA
Power Dissipation	$P_T$	170	125	mW
Operating Temperature	$T_A$	-40 ~ +85		°C
Storage Temperature	$T_{stg}$	-40 ~ +85		

Operating Characteristics ( $T_A=25^\circ\text{C}$ )		MDK (InGaAlP)	MYK (InGaAlP)	Unit
Forward Voltage (Typ.) ( $I_F=20\text{mA}$ )	$V_F$	1.95	2.0	V
Forward Voltage (Max.) ( $I_F=20\text{mA}$ )	$V_F$	2.5	2.5	V
Wavelength of Peak Emission ( $I_F=20\text{mA}$ )	$\lambda_P$	650	590	nm
Wavelength of Dominant Emission ( $I_F=20\text{mA}$ )	$\lambda_D$	635	590	nm
Spectral Line Full Width At Half-Maximum ( $I_F=20\text{mA}$ )	$\Delta\lambda$	28	20	nm
Capacitance ( $V_F=0\text{V}$ , $f=1\text{MHz}$ )	$C$	35	20	pF

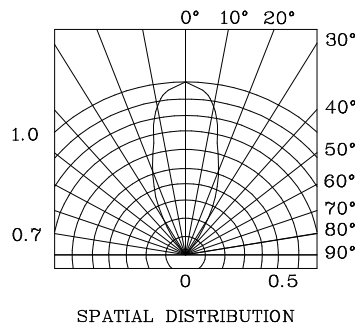
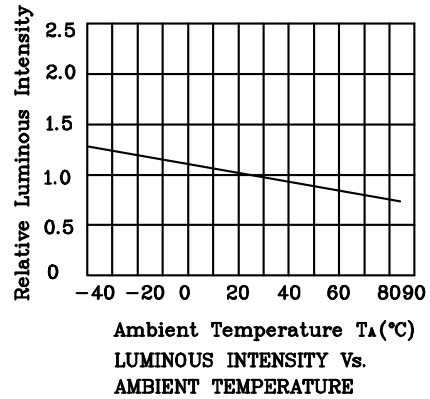
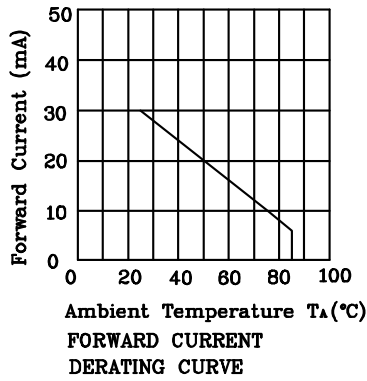
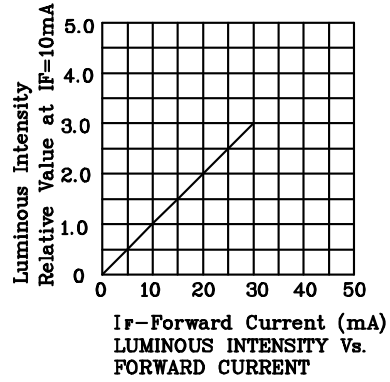
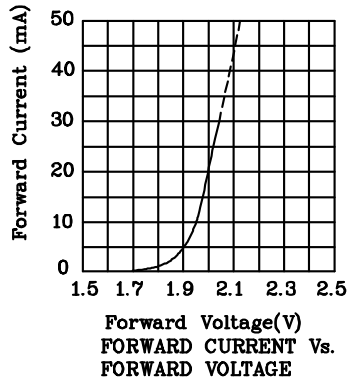
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ( $I_F=20\text{mA}$ ) mcd		Wavelength nm $\lambda_P$	Viewing Angle $2\theta_{1/2}$
				min.	typ.		
XZMDKMYK55W-7	Red	InGaAlP	Water Clear	110	497	650	40°
	Yellow	InGaAlP		70	297		



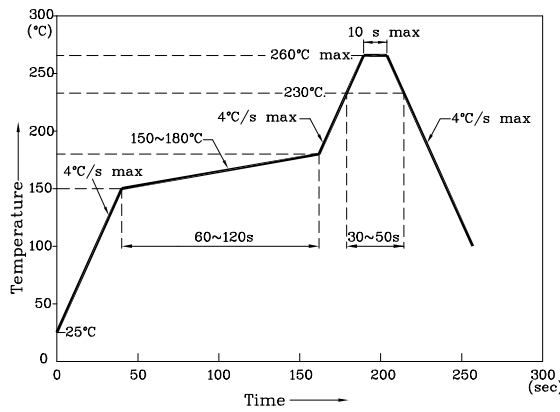
❖ MDK



❖ MYK



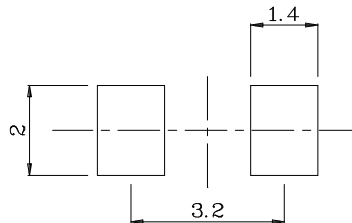
Reflow Soldering Profile For Lead-free SMT Process.



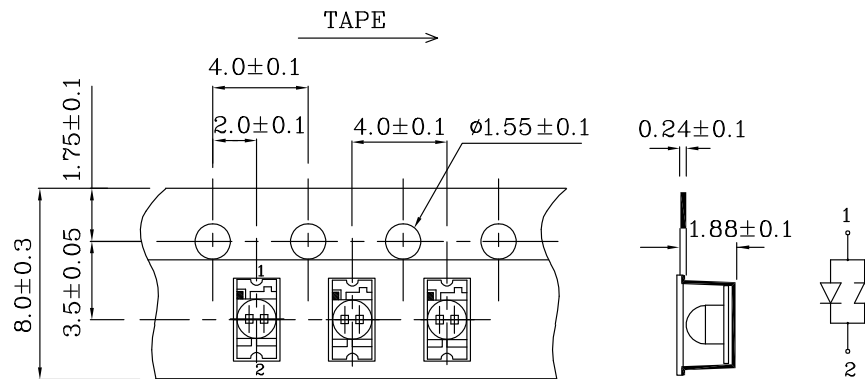
NOTES:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C–260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

❖ Recommended Soldering Pattern (Units : mm;Tolerance± 0.1)



❖ Tape Specification (Units : mm)



Remarks:

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

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.