

PRELIMINARY SPEC

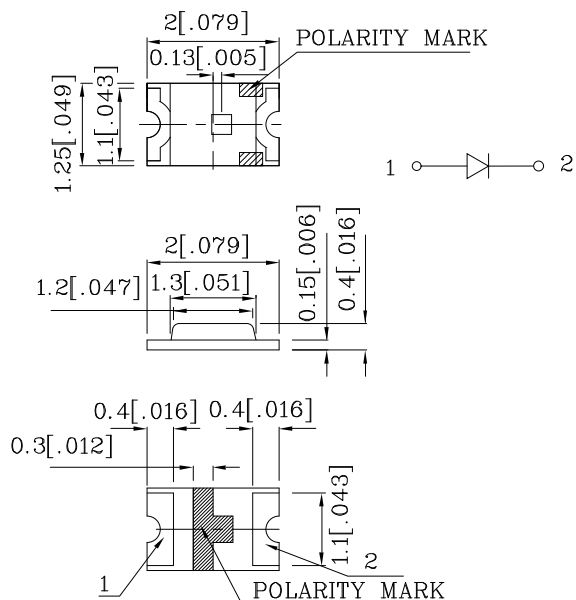
Features

- 2.0X1.25mm SMT LED,0.5mm MAX.THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



Notes:

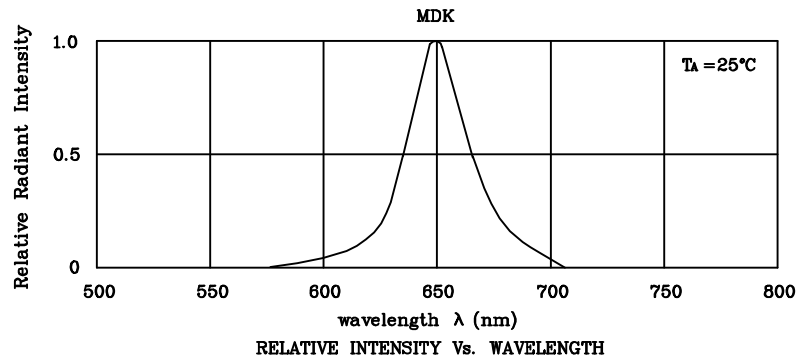
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
3. Specifications are subject to change without notice.



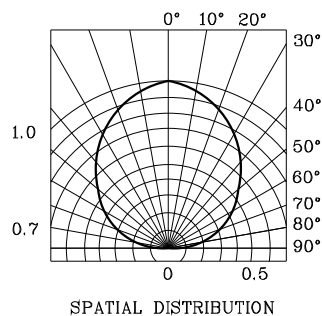
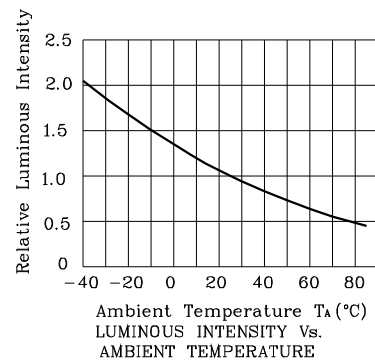
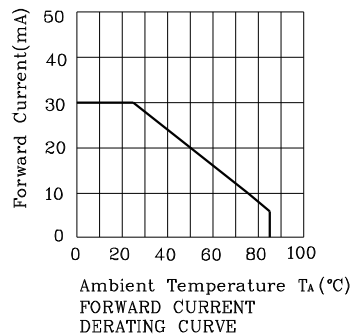
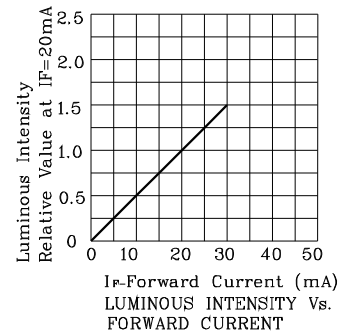
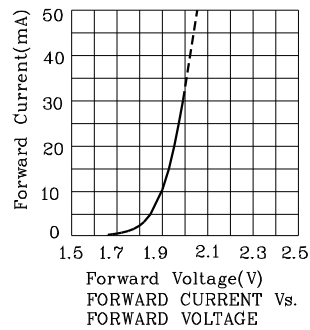
Absolute Maximum Ratings (TA=25°C)		MDK (InGaAlP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	185	mA
Power Dissipation	Pr	75	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

Operating Characteristics (TA=25°C)		MDK (InGaAlP)	Unit
Forward Voltage (Typ.) (IF=20mA)	V _F	1.95	V
Forward Voltage (Max.) (IF=20mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	μA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λ P	650	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λ D	635	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	pF

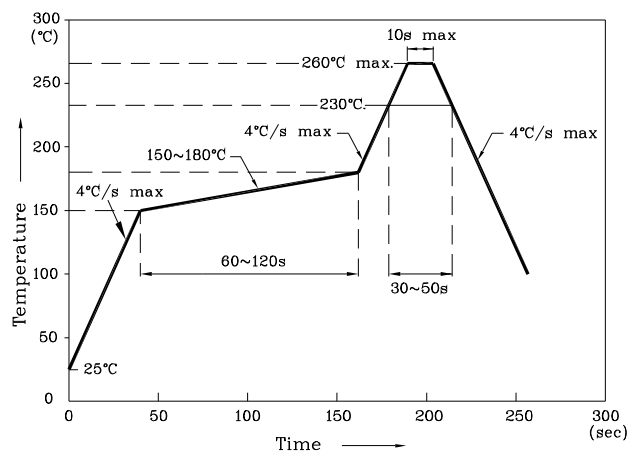
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd	Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.	
ZMDK54W-4	Red	InGaAlP	Water Clear	50	148	650
Published Date : FEB 25,2008		Drawing No :SDSA4447		V3	Checked : B.L.LIU	
P.1/4						



❖ **MDK**



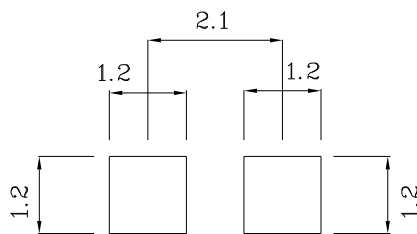
Reflow Soldering Profile For Lead-free SMT Process.



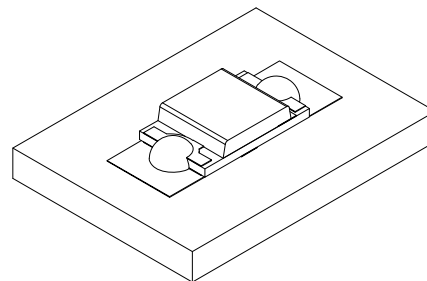
Notes:

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.

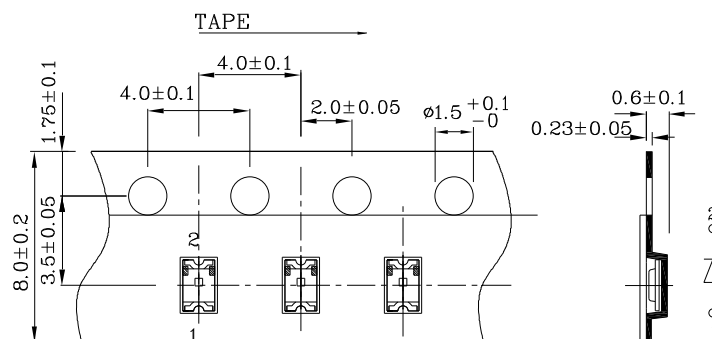
❖ **Recommended Soldering Pattern**
(Units : mm; Tolerance: ± 0.1)



❖ **The device has a single mounting surface. The device must be mounted according to the specifications.**



❖ **Tape Specification (Units : mm)**



Remarks:

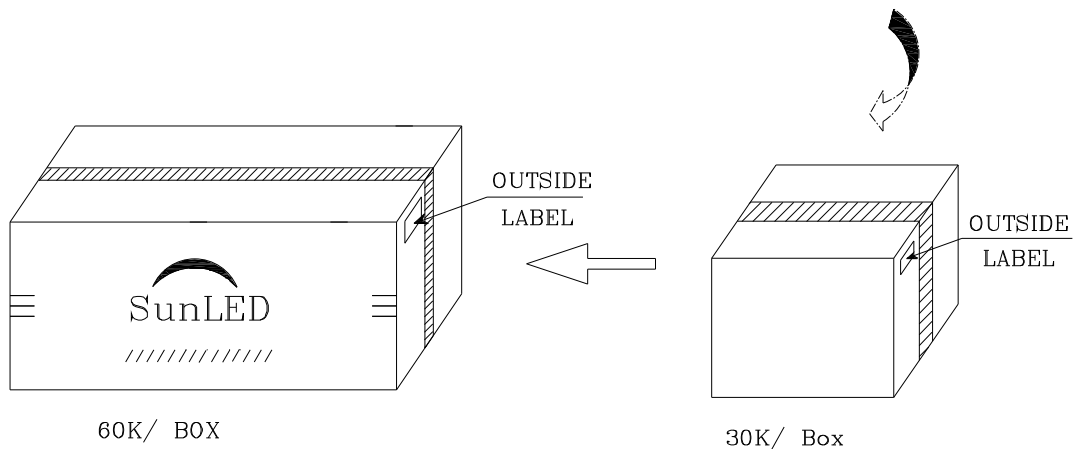
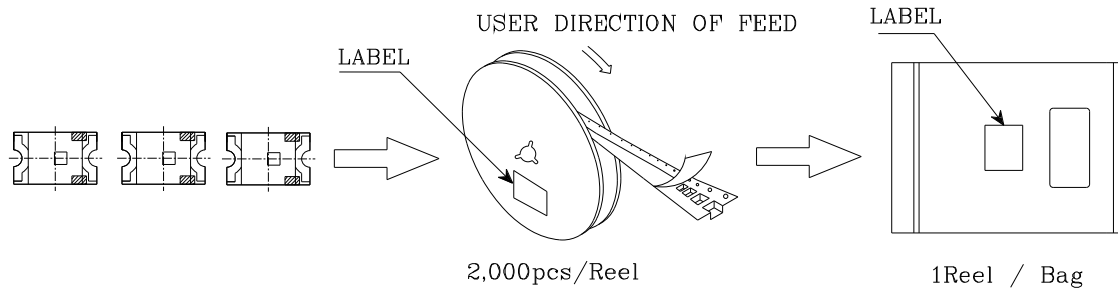
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity / Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

ZMDK54W-4



P/NO : Zxxx54x-4		
QTY : 2,000 pcs	CODE: XXX	
S/N : XX		
LOT NO:		
RoHS Compliant		