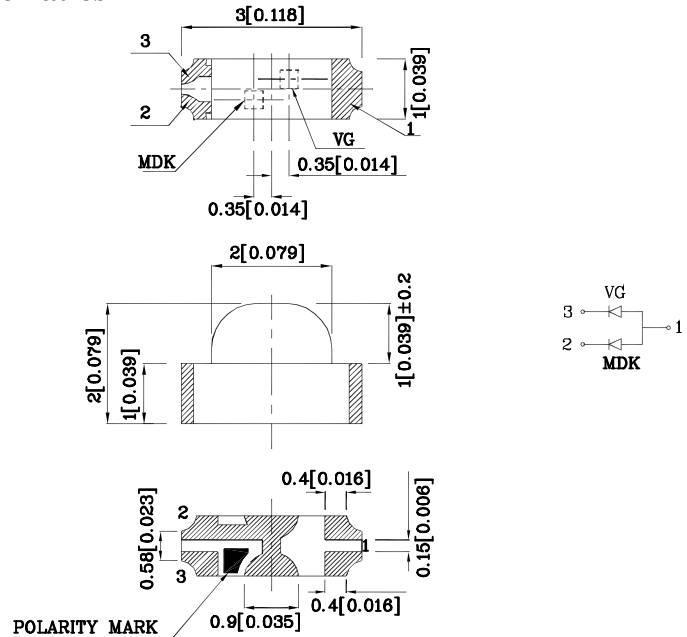


Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 2000 pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



Package Schematics



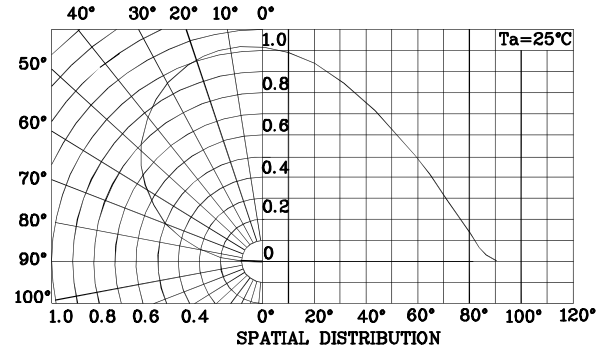
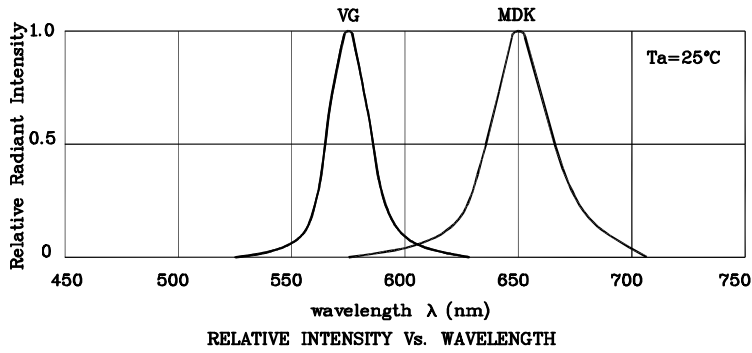
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.15(0.006")$ unless otherwise noted.
3. Specifications are subject to change without notice.

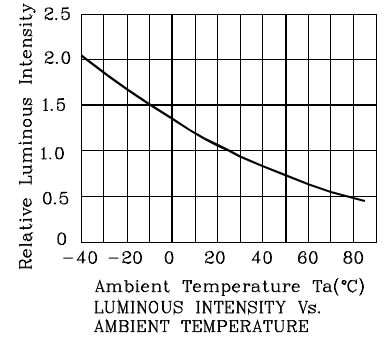
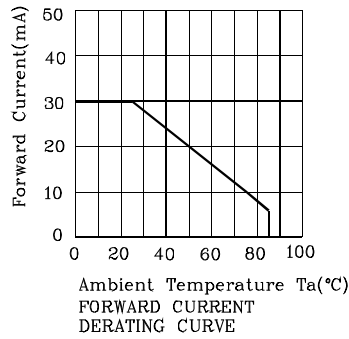
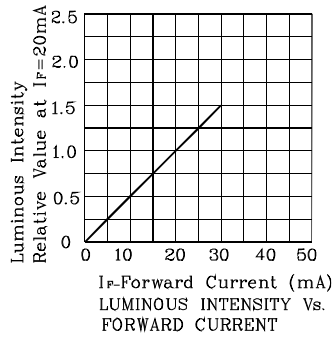
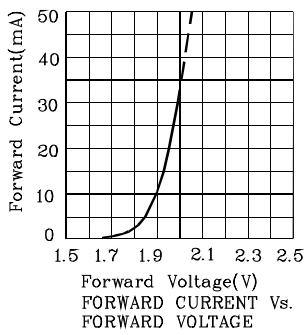
Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit
Reverse Voltage	V _R	5	5	V
Forward Current	I _F	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	185	150	mA
Power Dissipation	P _D	75	75	mW
Operating Temperature	T _A	-40 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +85		

Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.95	2.1	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	10	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λP	650	574	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λD	630	570	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	△λ	28	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	15	pF

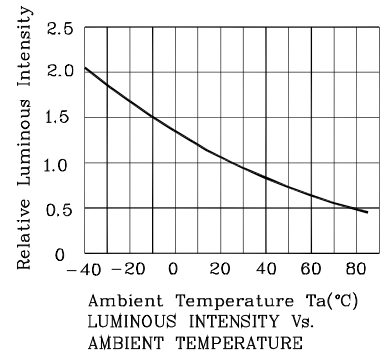
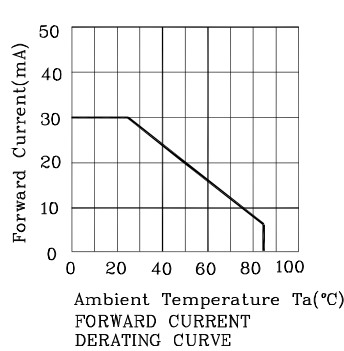
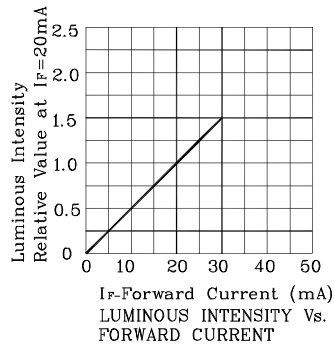
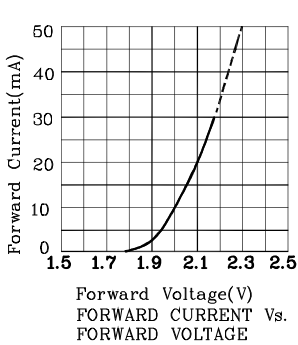
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd	Wavelength nm λP	Viewing Angle 2θ 1/2	
				min.	typ.		
XZMDKVG56W	Red	AlGaInP	Water Clear	120	297	650	140°
	Green	AlGaInP		40	69	574	



❖ MDK

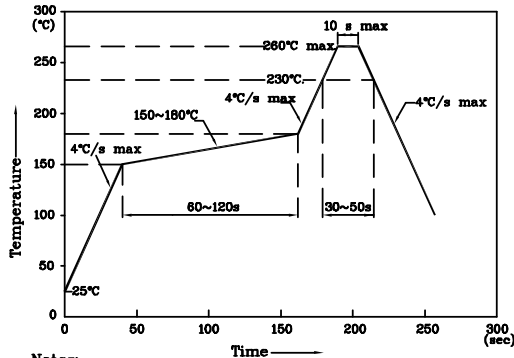


❖ VG



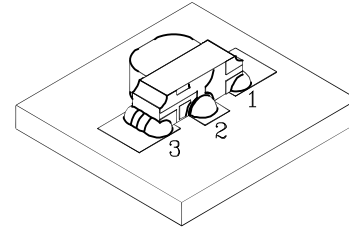
LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

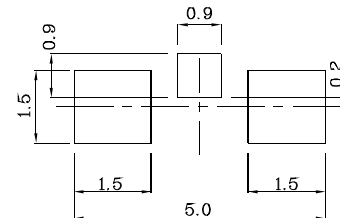


Notes:

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

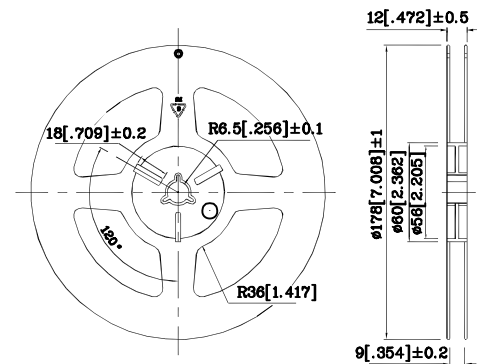
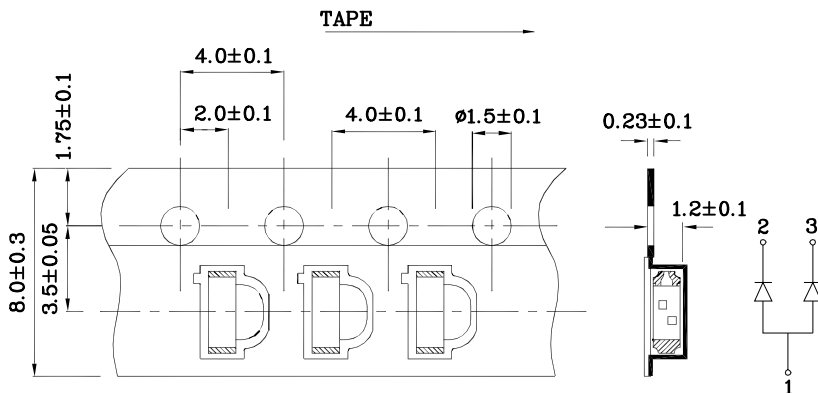


❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



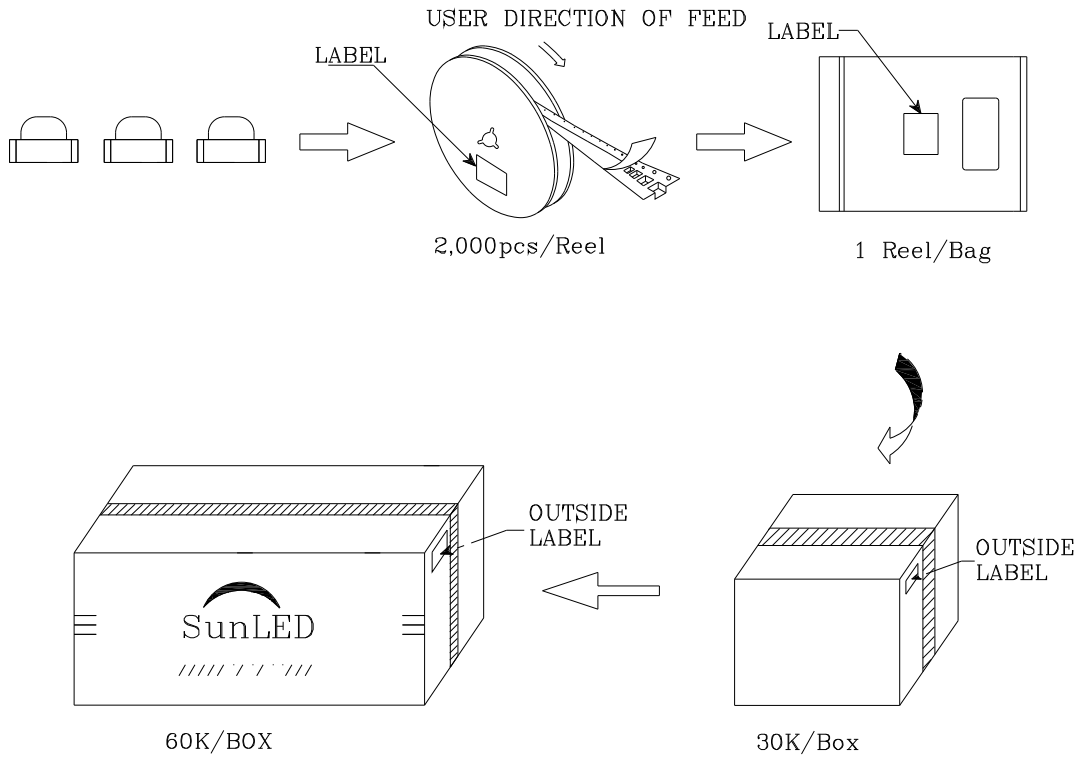
Remarks:

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





Q.C. Q C
 XX XX XXXX
 PASSED

P/NO : XZxxx56x	
QTY : 2,000 pcs	CODE: XXX
S/N : XX	
LOT NO :  XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	