

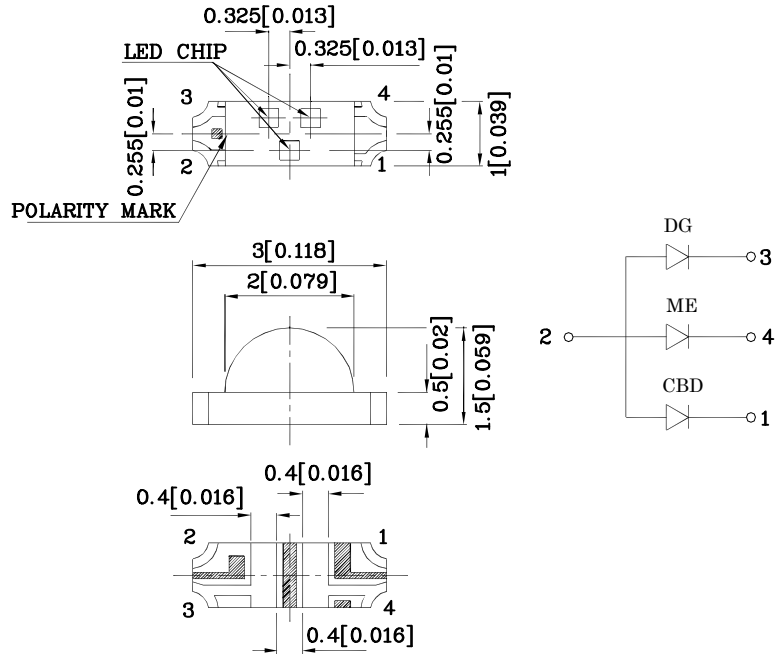
Features

- 3.0 X 1.0 X 1.5mm right angle SMD LED
- Ideal for indication on hand held products
- Low current operation
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics



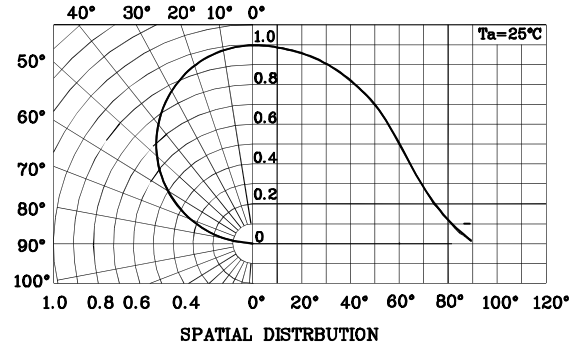
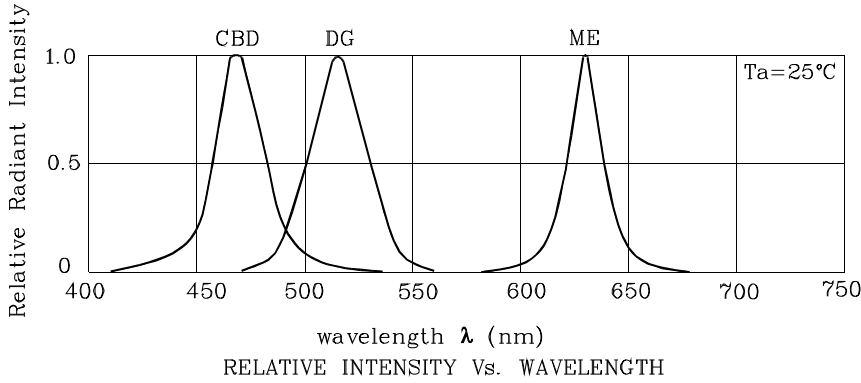
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ " unless otherwise noted.
3. Specifications are subject to change without notice.

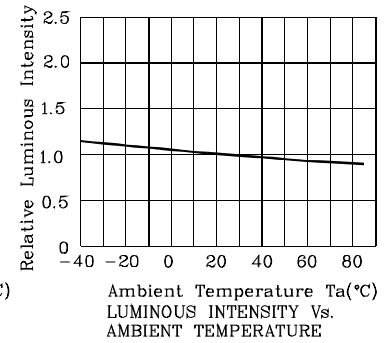
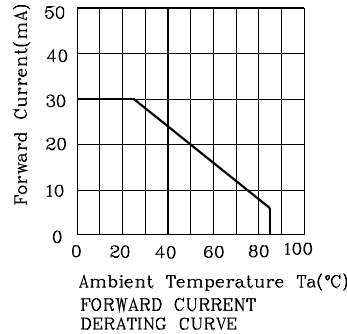
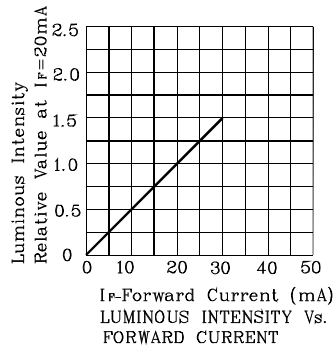
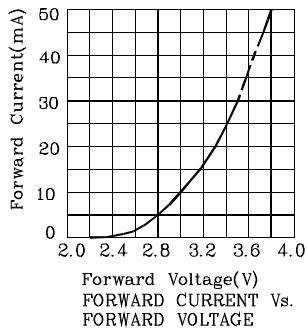
Absolute Maximum Ratings (T _A =25°C)		CBD (InGa N)	DG (InGa N)	ME (AlGaIn P)	Unit
Reverse Voltage	V _R	5	5	5	V
Forward Current	I _F	30	25	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	150	150	195	mA
Power Dissipation	P _D	120	102.5	75	mW
Electrostatic Discharge Threshold (HBM)		250	450	-	V
Operating Temperature	T _A	-40 ~ +85			°C
Storage Temperature	T _{stg}				

Operating Characteristics (T _A =25°C)		CBD (InGaN)	DG (InGaN)	ME (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	3.3	3.3	2	V
Forward Voltage (Max.) (I _F =20mA)	V _F	4	4.1	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	50	50	10	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ _P	468	515	630	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ _D	470	525	621	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	25	30	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	100	45	25	pF

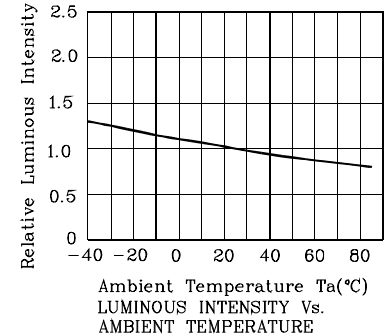
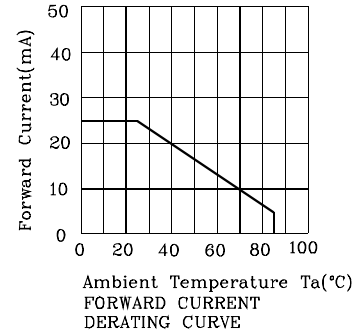
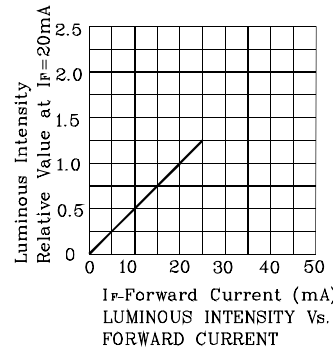
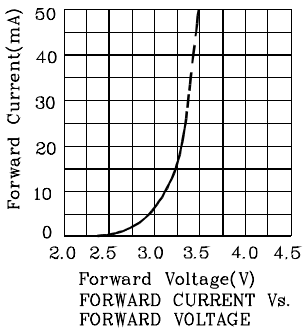
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ _P	Viewing Angle 2θ 1/2
				min.	typ.		
XZCBDDGME56W	Blue	InGaN	Water Clear	40	69	468	120°
	Green	InGaN		200	397	515	
	Red	AlGaInP		300	447	630	



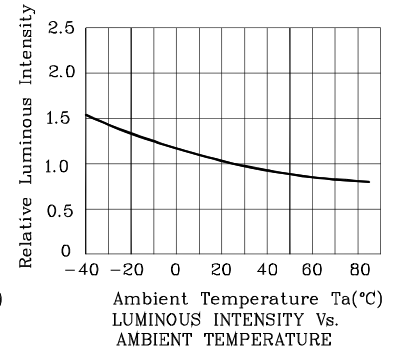
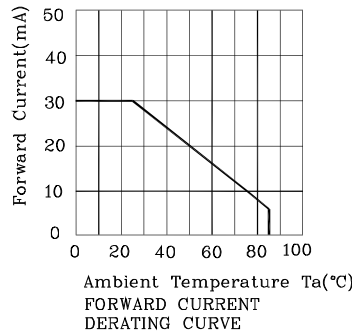
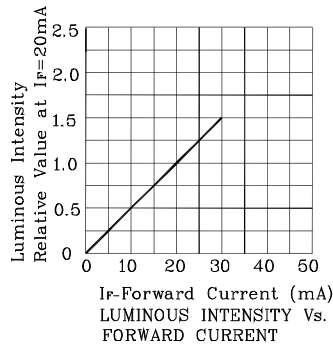
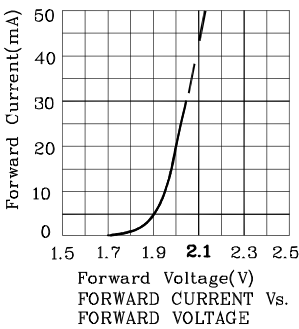
❖ CBD



❖ DG



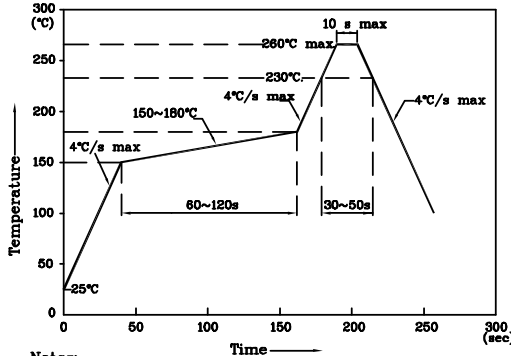
❖ ME



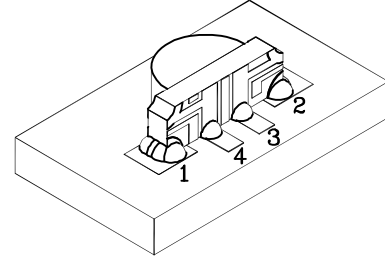
LED is recommended for reflow soldering and soldering profile is shown below.

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

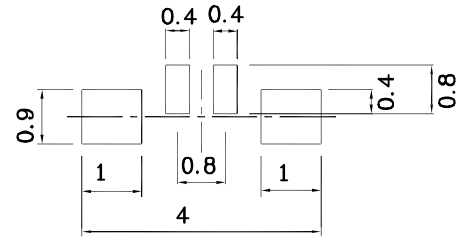
Reflow Soldering Profile for SMD Products (Pb-Free Components)



- 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

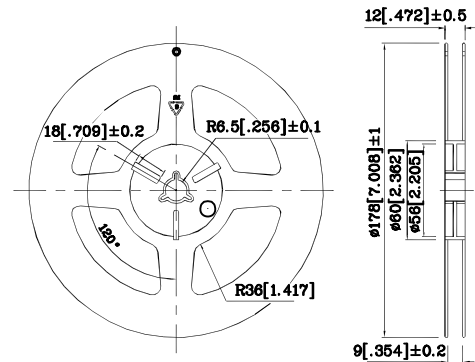
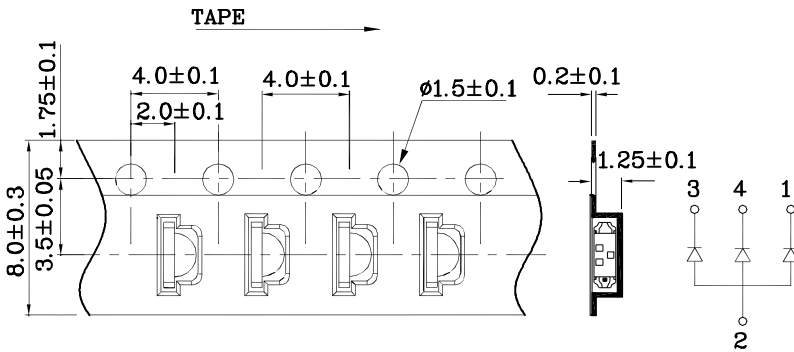


❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



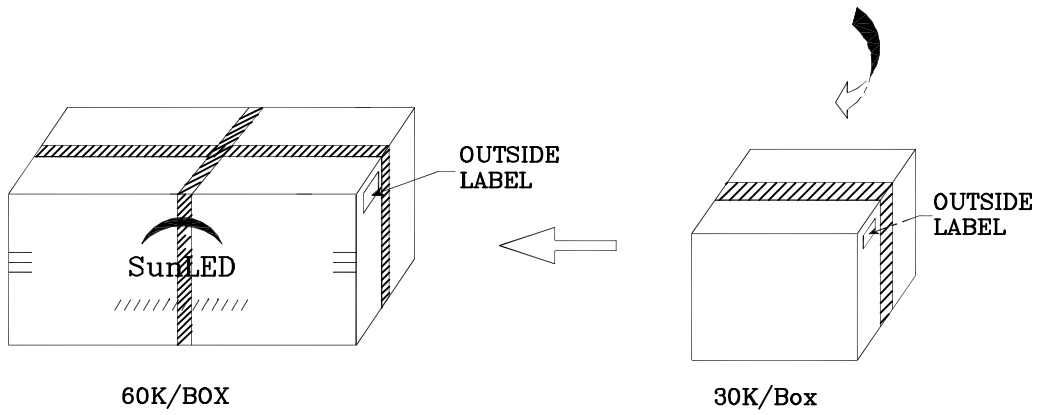
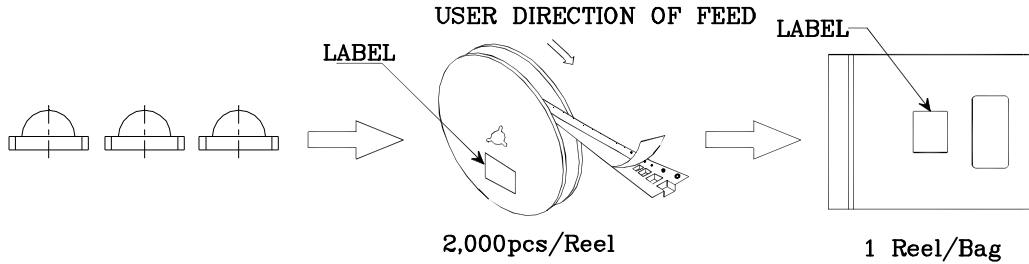

Remarks:

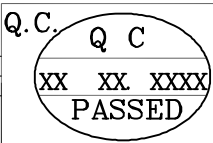

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

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