

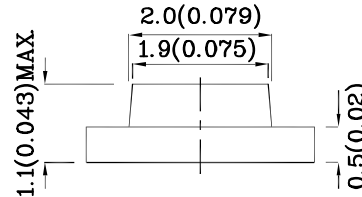
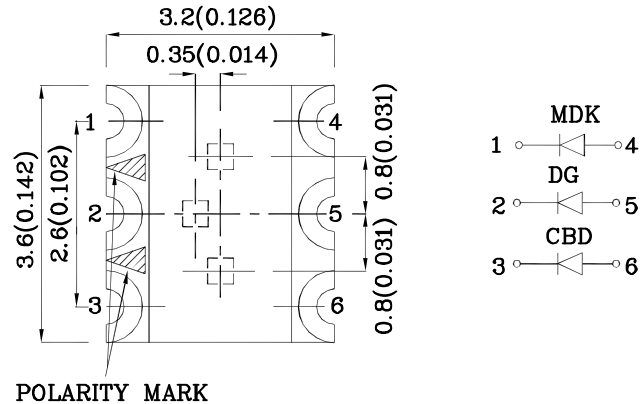
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 1000pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics



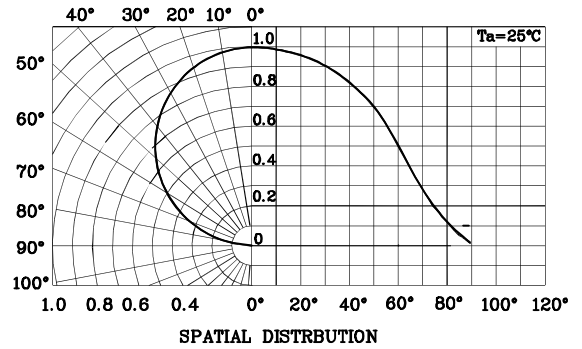
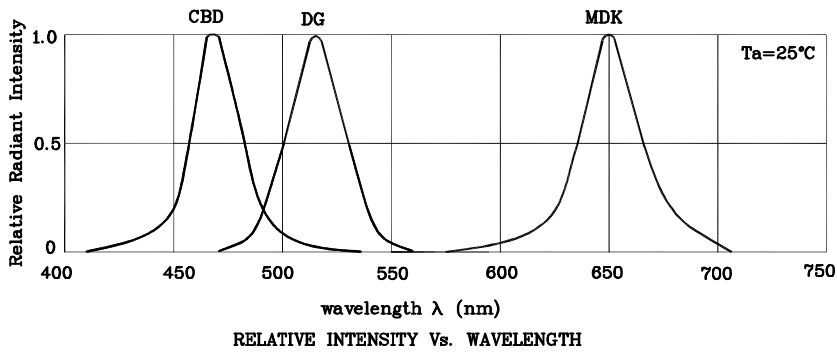
Notes:

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.

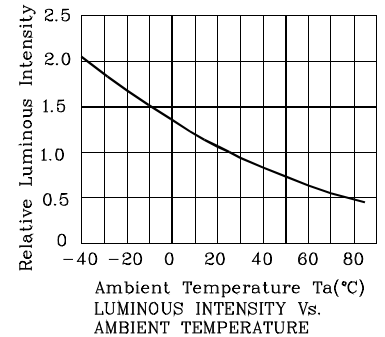
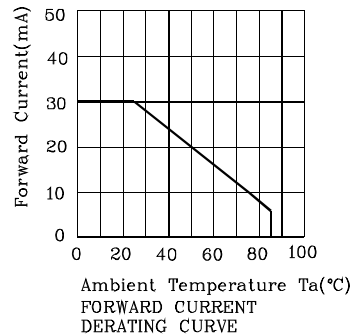
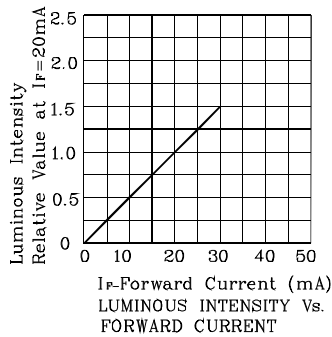
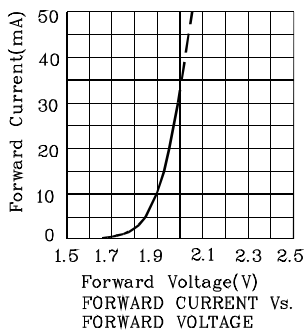
Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	DG (InGa N)	CBD (InGa N)	Unit
Reverse Voltage	V _R	5	5	5	V
Forward Current	I _F	30	25	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	185	150	150	mA
Power Dissipation	P _D	75	102.5	120	mW
Electrostatic Discharge Threshold (HBM)		-	450	250	V
Operating Temperature	T _A	-40 ~ +85			°C
Storage Temperature	T _{stg}				

Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	DG (InGa N)	CBD (InGa N)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.95	3.3	3.3	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	4.1	4	V
Reverse Current (Max.) (V _R =5V)	I _R	10	50	50	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ _P	650	515	468	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ _D	630	525	470	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	28	30	25	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	45	100	pF

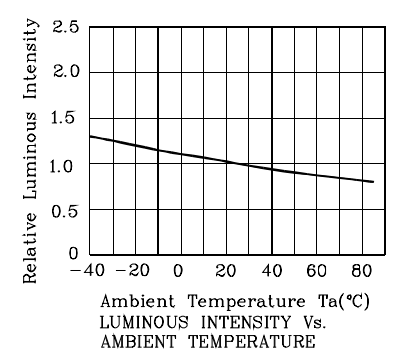
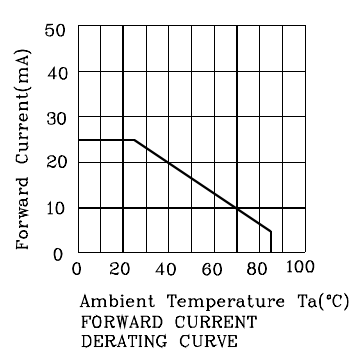
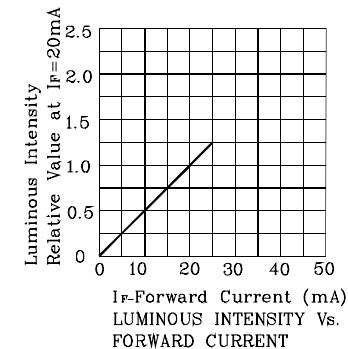
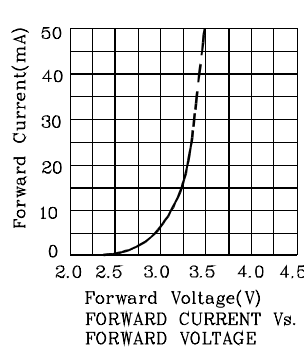
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd	Wavelength nm λ _P	Viewing Angle 2θ 1/2
XZMDKDG CBD61W	Red	AlGaInP	Water Clear	min. 120	typ. 248	650
	Green	InGa N		200	347	
	Blue	InGa N		50	79	
						120°



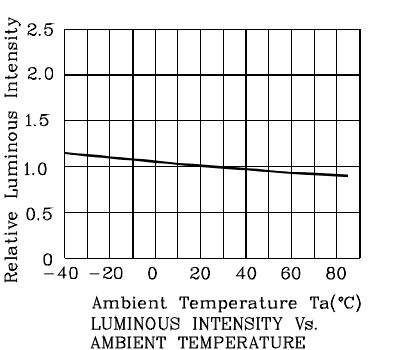
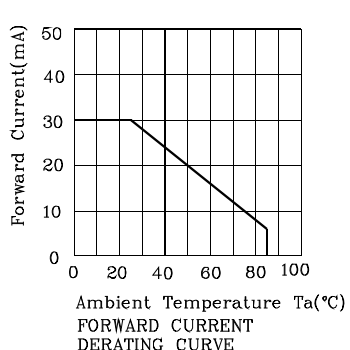
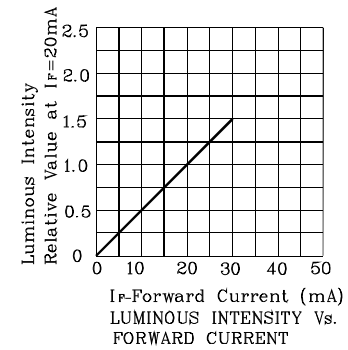
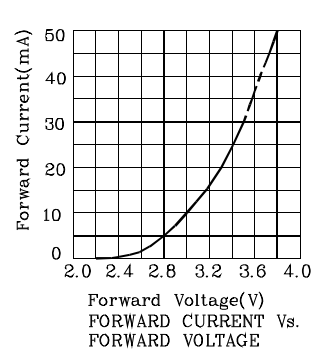
❖ MDK



❖ DG



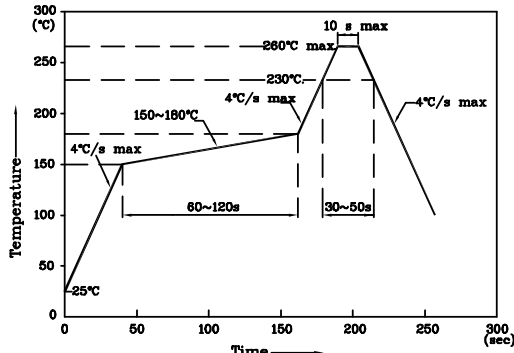
❖ CBD



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

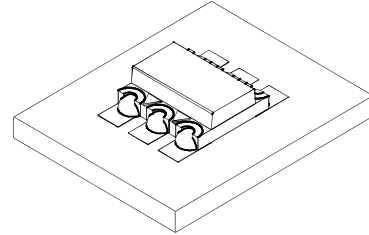
❖ The device has a single mounting surface.
The device must be mounted according to the specifications.

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

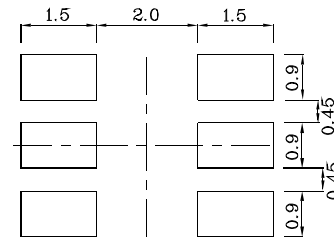


Notes:

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

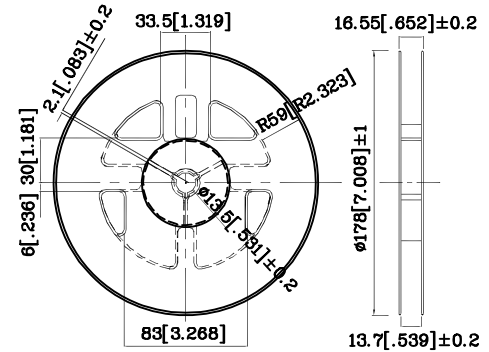
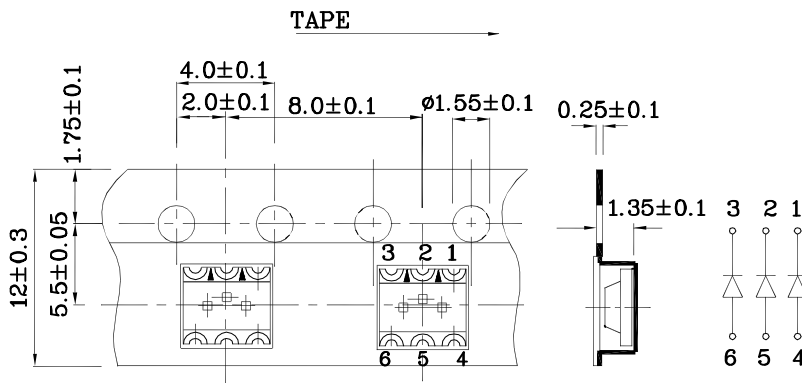


❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



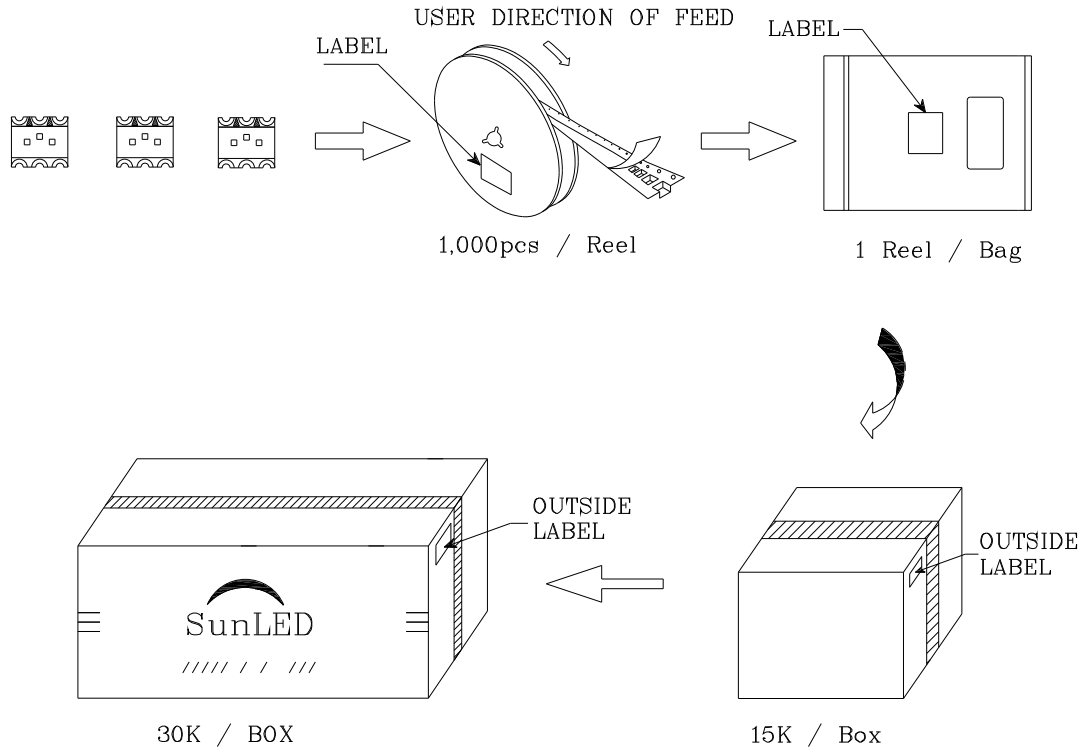
Remarks:


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: $\pm 1\text{nm}$
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
 XX XX XXXX
 PASSED

P/NO : XZxx62x	
QTY : 1,000 pcs	CODE: XXX
S/N : XX	
LOT NO:  XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	