

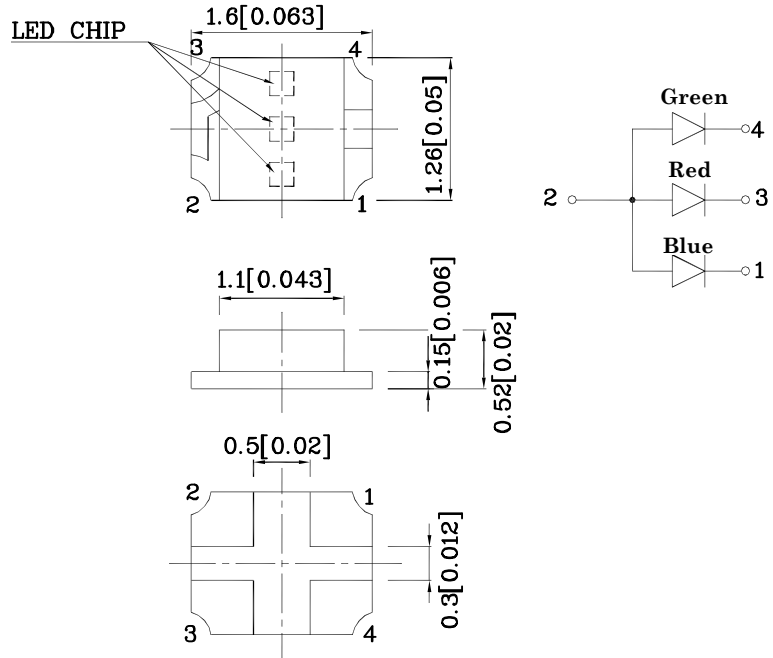
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics



Notes:

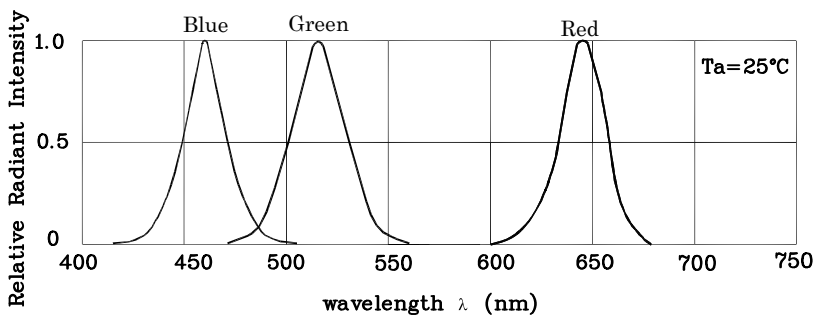
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		Blue (InGa N)	Red (AlGaIn nP)	Green (InGa N)	Unit	Operating Characteristics (T _A =25°C)		Blue (InGa N)	Red (AlGaIn P)	Green (InGa N)	Unit
Reverse Voltage	V _R	5	5	5	V	Forward Voltage (Typ.) (I _F =20mA)	V _F	3.3	1.95	3.3	V
Forward Current	I _F	30	30	25	mA	Forward Voltage (Max.) (I _F =20mA)	V _F	4	2.5	4.1	V
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	150	185	150	mA	Reverse Current (Max.) (V _R =5V)	I _R	50	10	50	uA
Power Dissipation	P _D	120	75	102.5	mW	Wavelength of Peak Emission CIE127-2007* (Typ.)	λ _P	460*	645*	515*	nm
Electrostatic Discharge Threshold (HBM)		250	3000	450	V	Wavelength of Dominant Emission CIE127-2007* (Typ.)	λ _D	465*	630*	525*	nm
Operating Temperature	T _A	-40 ~ +85			°C	Spectral Line Full Width At Half-Maximum (Typ.)	Δλ	25	28	30	nm
Storage Temperature	T _{stg}										
Thermal resistance (Junction/ambient)	R _{th j-a}	490	300	380	°C/W	Capacitance (Typ.) (V _F =0V, f=1MHz)	C	100	35	45	pF

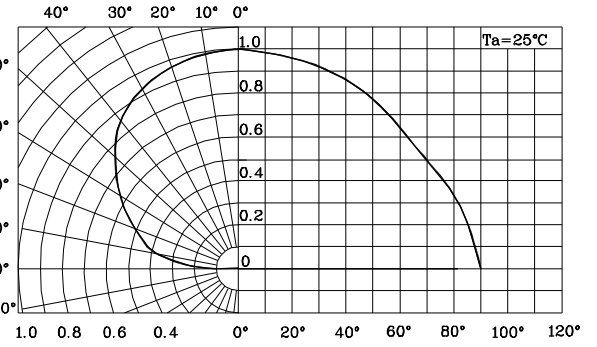
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd	Wavelength CIE127-2007* nm λ _P	Viewing Angle 20 1/2
				min.	typ.	
XZCBDMDKDG62W-2	Blue	InGaN	Water Clear	40	69	140°
				40*	69*	
	Red	AlGaInP		120	198	
				40*	79*	
	Green	InGaN		120	278	
				120*	278*	

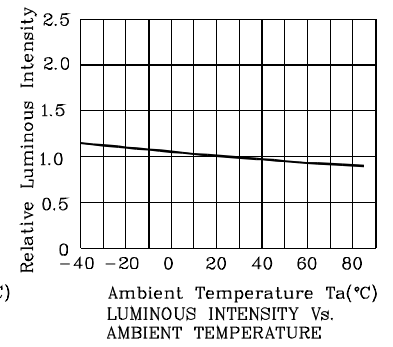
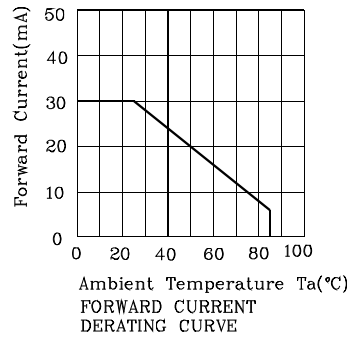
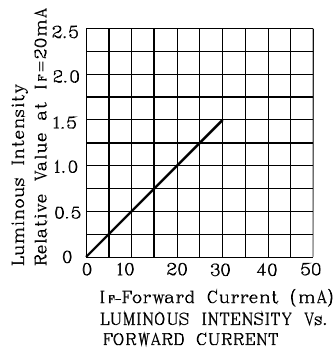
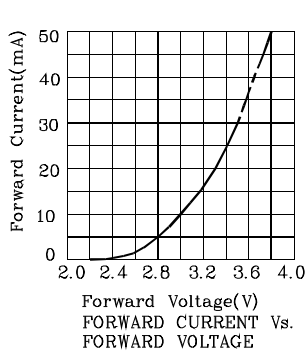
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
Sep 16,2016



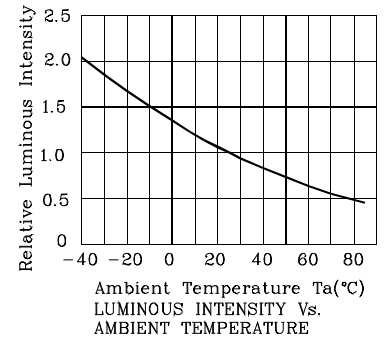
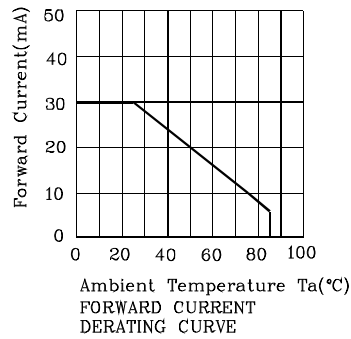
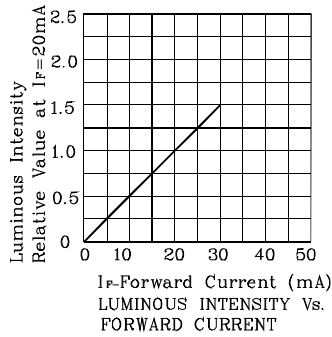
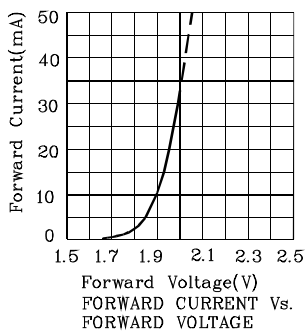
RELATIVE INTENSITY Vs. CIE WAVELENGTH



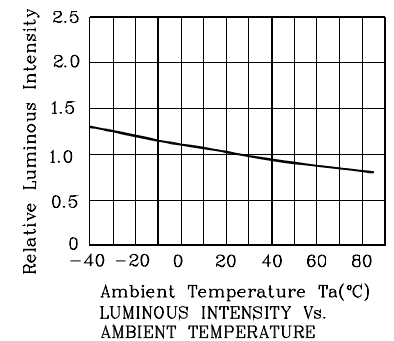
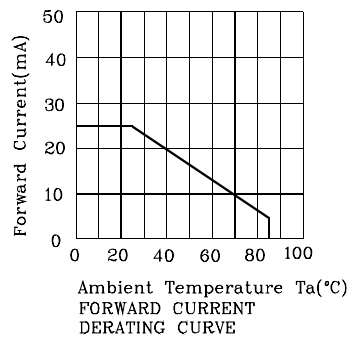
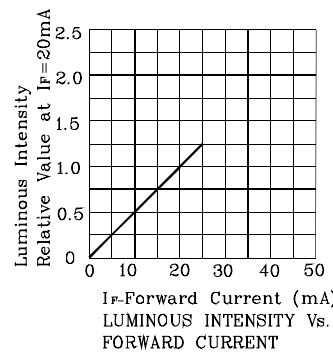
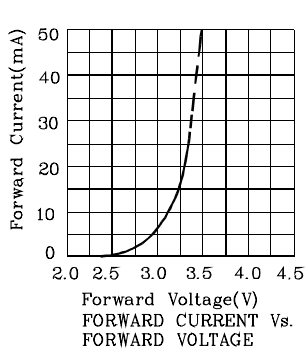
❖ Blue



❖ Red



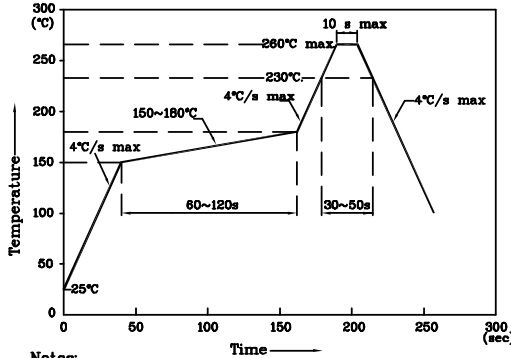
❖ Green



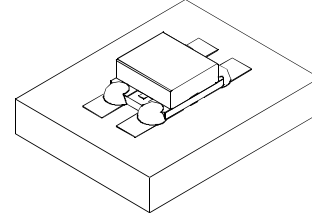
LED is recommended for reflow soldering and soldering profile is shown below.

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

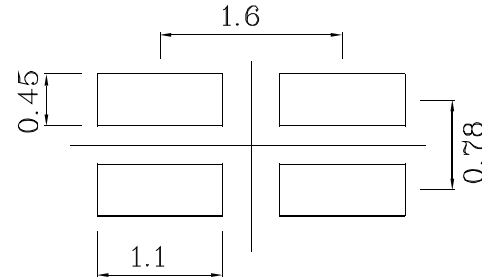
Reflow Soldering Profile for SMD Products (Pb-Free Components)



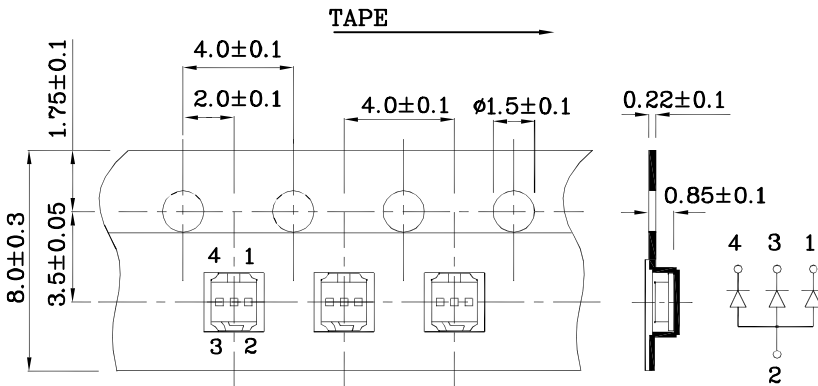
- Notes:
1. Maximum soldering temperature should not exceed 260°C
 2. Recommended reflow temperature: 145°C-260°C
 3. Do not put stress to the epoxy resin during high temperatures conditions



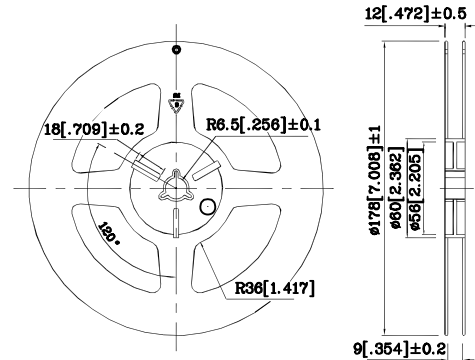
❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)



❖ Reel Dimension



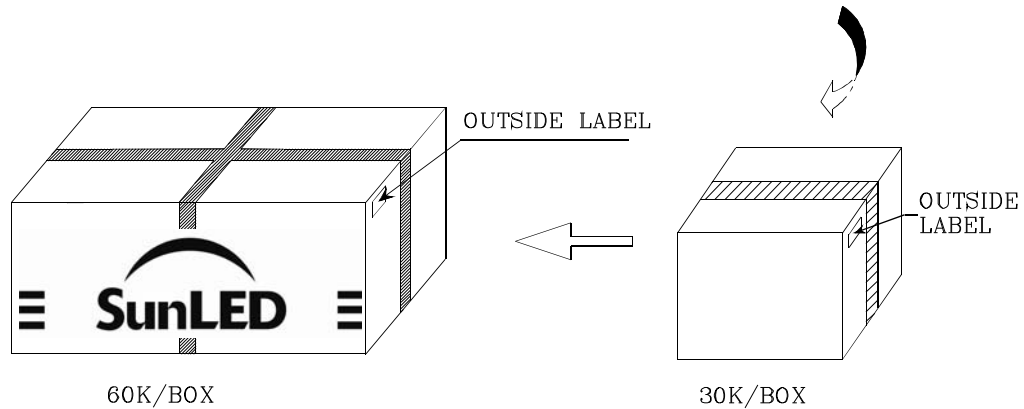
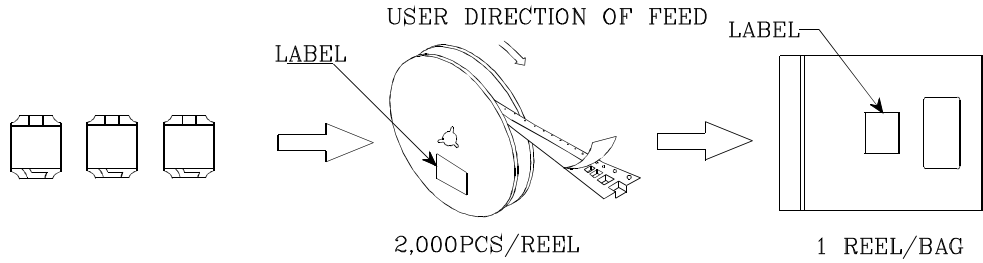
Remarks:


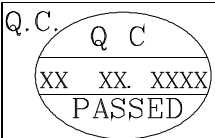

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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 : XZxxx62x		
QTY : 2,000 pcs	CODE: XXX	
S/N : XX		
LOT NO :		
		
XXXXXXXXXXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		

TERMS OF USE

1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
2. Contents within this document are subject to improvement and enhancement changes without notice.
3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
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