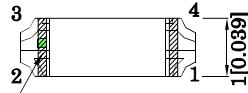
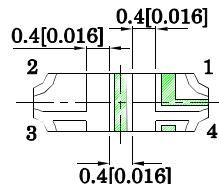
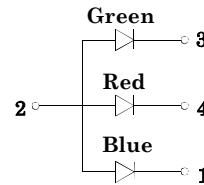
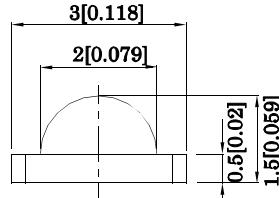


Features

- 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

Polarity Mark


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 (TA=25°C)		Blue (InGaN)	Green (InGaN)	Red (AlGaInP)	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	3000	V
Operating Temperature	T _A	-40 ~ +85		°C	
Storage Temperature	T _{stg}				

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)

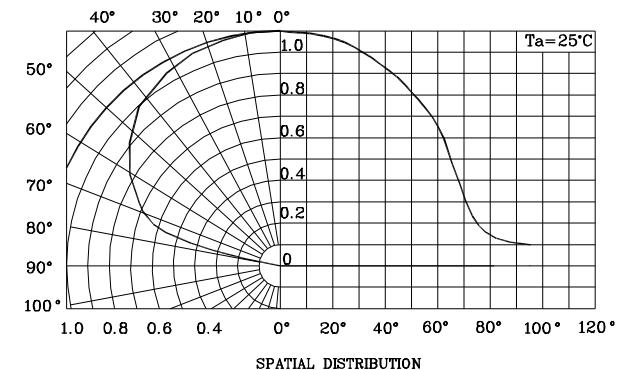
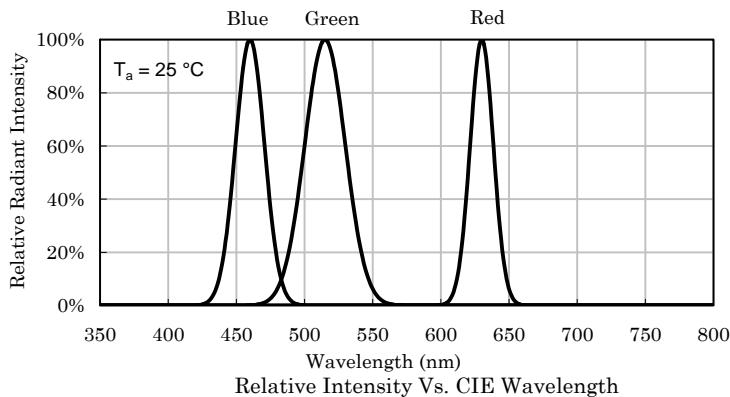
Operating Characteristics (TA=25°C)		Blue (InGaN)	Green (InGaN)	Red (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	3.3	3.3	2	V
Forward Voltage (Max.) (I _F =20mA)	V _F	4	4.1	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	50	50	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λP	460*	515*	630*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λD	465*	525*	621*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	△λ	25	35	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	100	45	25	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.	
XZCBDDGME56W	Blue	InGaN	Water Clear	40*	69*	460*
	Green	InGaN		300*	497*	515*
	Red	AlGaInP		80*	138*	630*

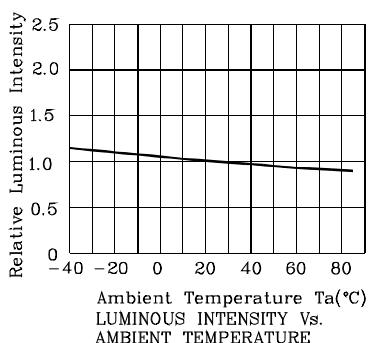
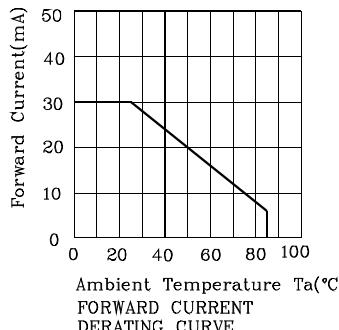
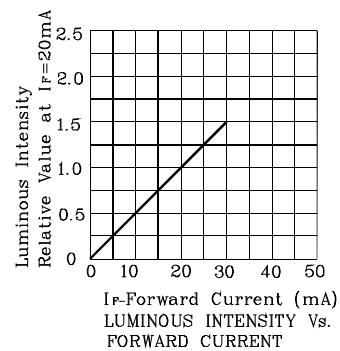
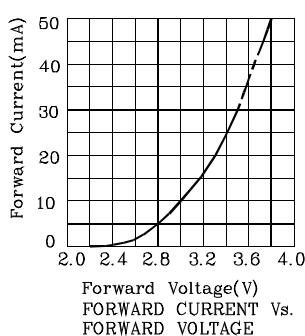
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Aug 24, 2017

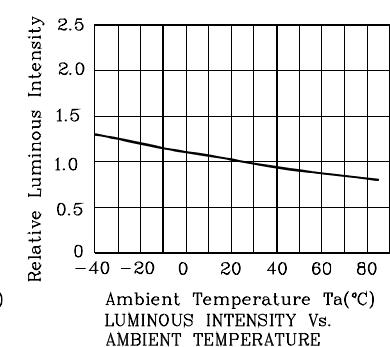
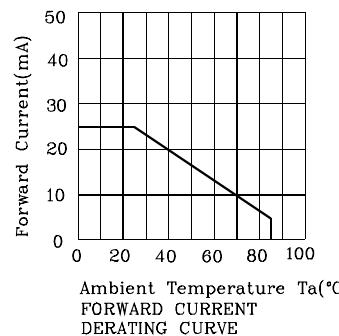
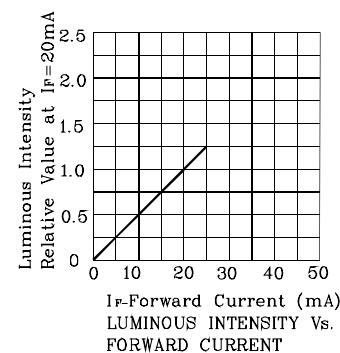
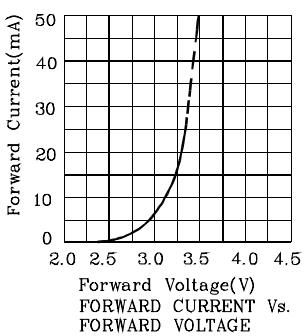
XDSB6706 V3-Z Layout: Maggie L.



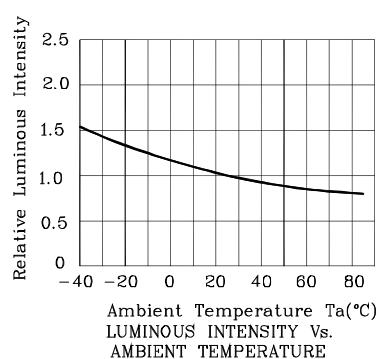
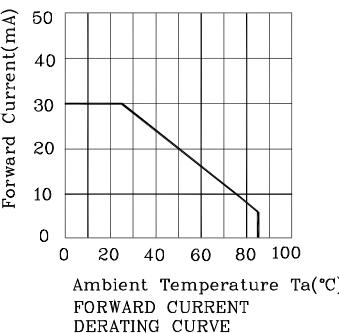
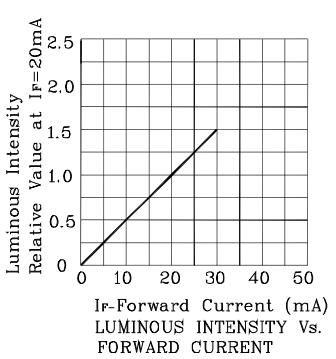
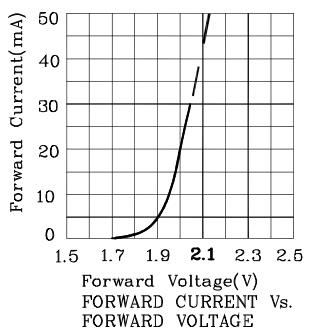
❖ Blue



❖ Green

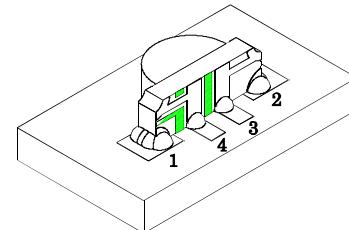
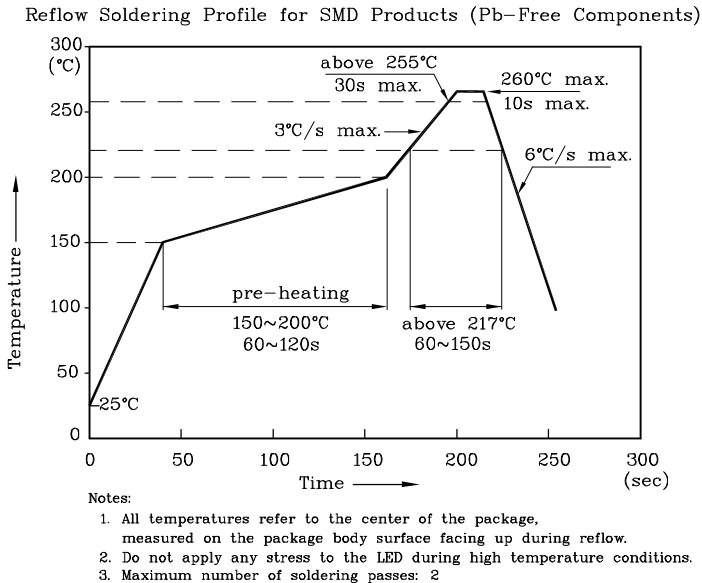


❖ Red

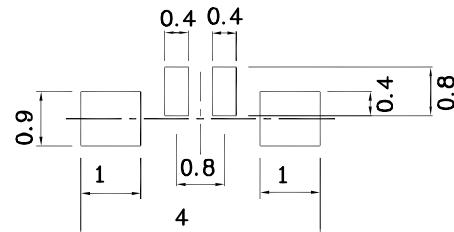


LED is recommended for reflow soldering and soldering profile is shown below.

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

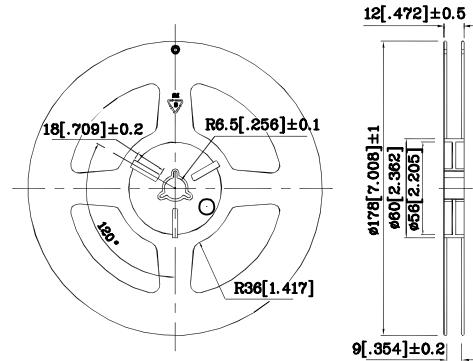
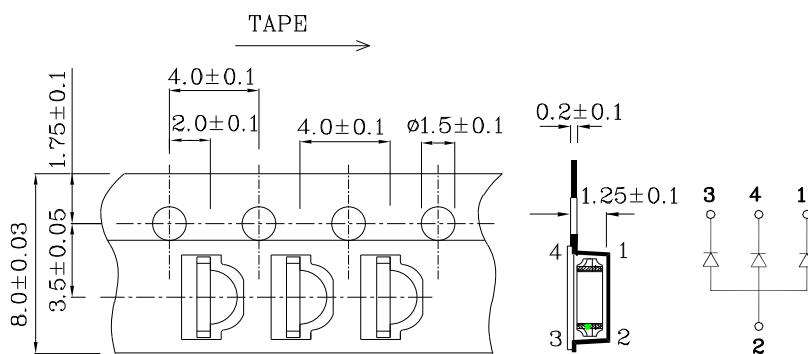


❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



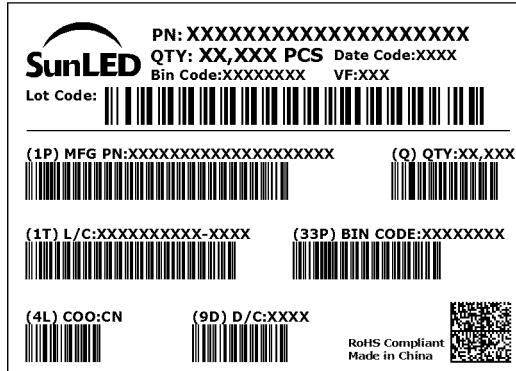
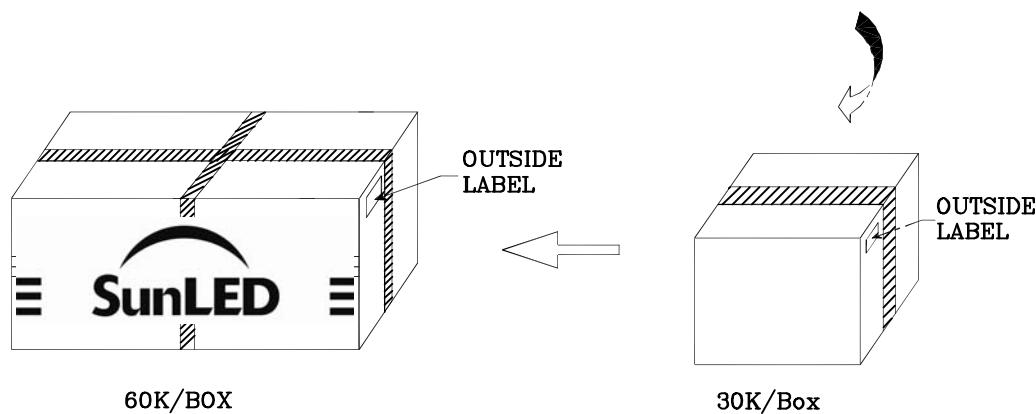
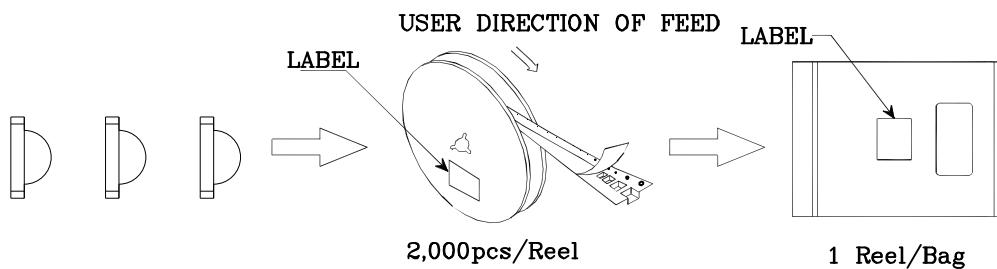
Remarks:

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



TERMS OF USE

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2. Contents within this document are subject to improvement and enhancement changes without notice.
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