

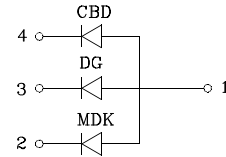
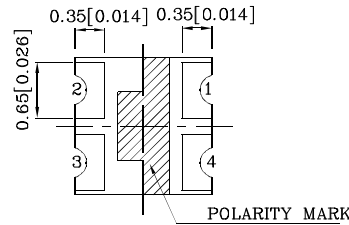
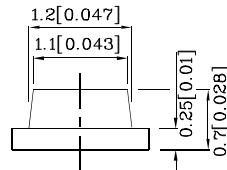
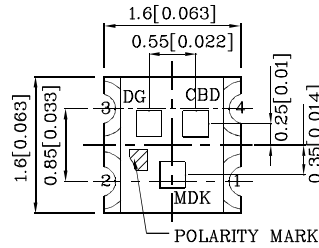
Features

- 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:

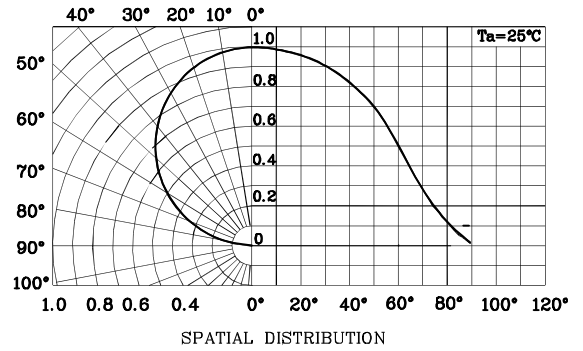
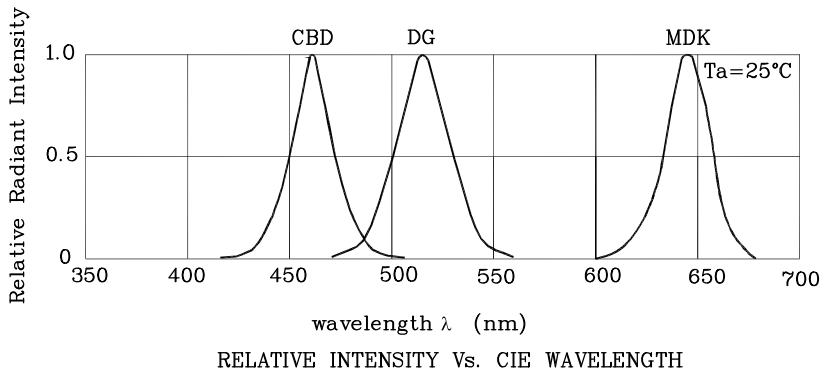
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	DG (InGaN)	CBD (InGaN)	Unit	Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	DG (InGaN)	CBD (InGaN)	Unit
Reverse Voltage	V _R	5	5	5	V	Forward Voltage (Typ.) (I _F =20mA)	V _F	1.95	3.3	3.3	V
Forward Current	I _F	30	25	30	mA	Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	4.1	4.0	V
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	185	150	150	mA	Reverse Current (Max.) (V _R =5V)	I _R	10	50	50	uA
Power Dissipation	P _D	75	102.5	120	mW	Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ _P	645*	515*	460*	nm
Electrostatic Discharge Threshold (HBM)	-	-	450	250	V	Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ _D	630*	525*	465*	nm
Operating Temperature	T _A	-40 ~ +85			°C	Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	28	30	25	nm
Storage Temperature	T _{stg}					Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	45	100	pF

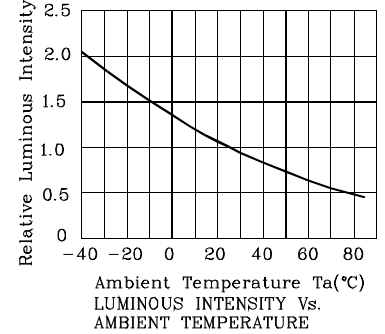
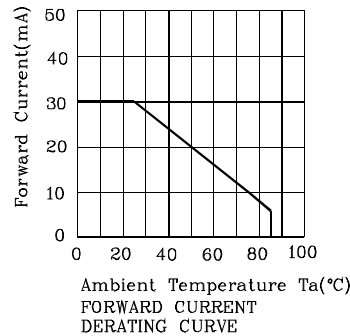
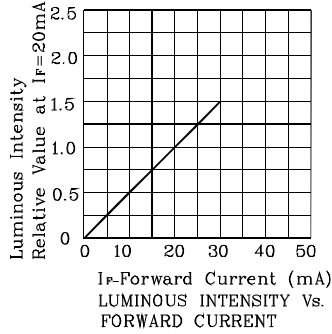
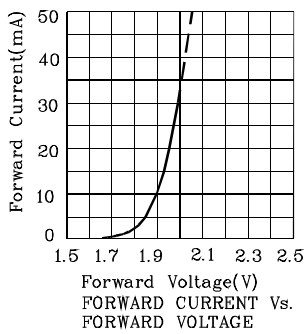
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λ _P	Viewing Angle 2θ 1/2
				min.	typ.		
XZMDKDGCB110W	Red	AlGaInP	Water Clear	40*	79*	645*	120°
	Green	InGaN		200*	297*	515*	
	Blue	InGaN		40*	69*	460*	

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
Mar 25, 2014

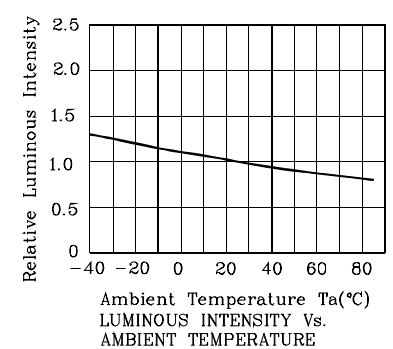
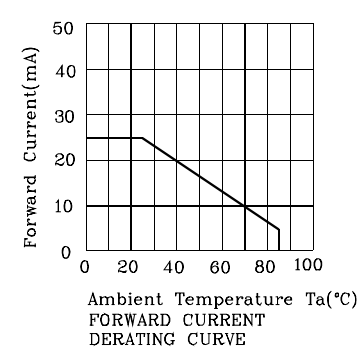
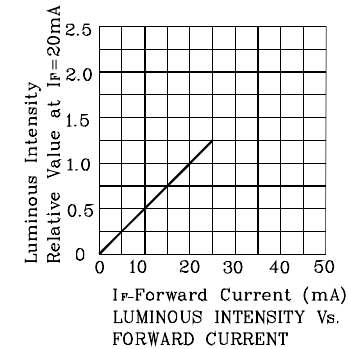
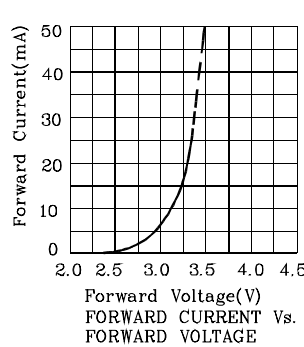
XDSB4378 V4-Z Layout: Maggie L.



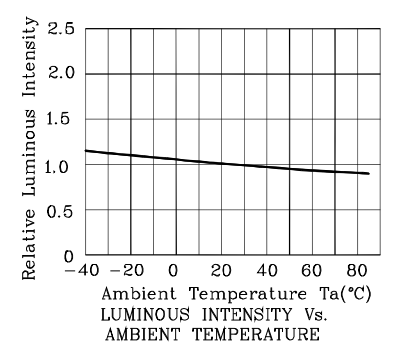
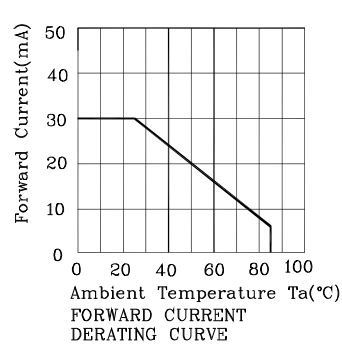
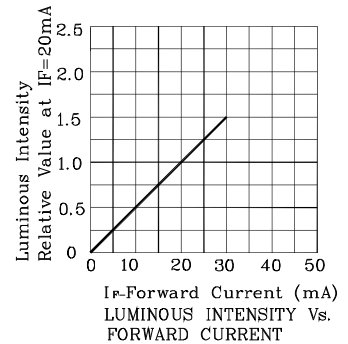
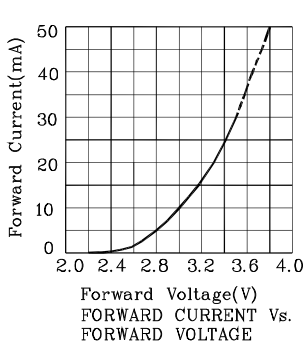
❖ MDK



❖ DG

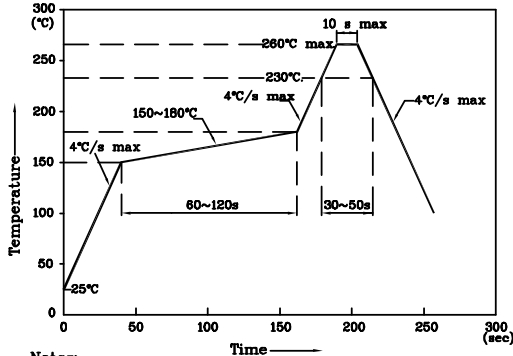


❖ CBD



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

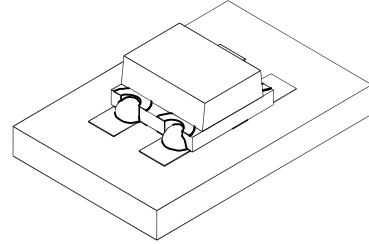
Reflow Soldering Profile for SMD Products (Pb-Free Components)



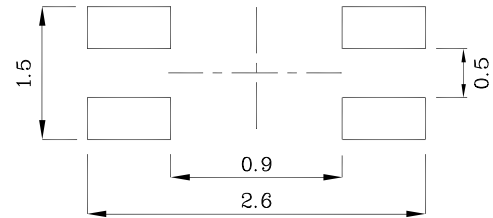
Notes:

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

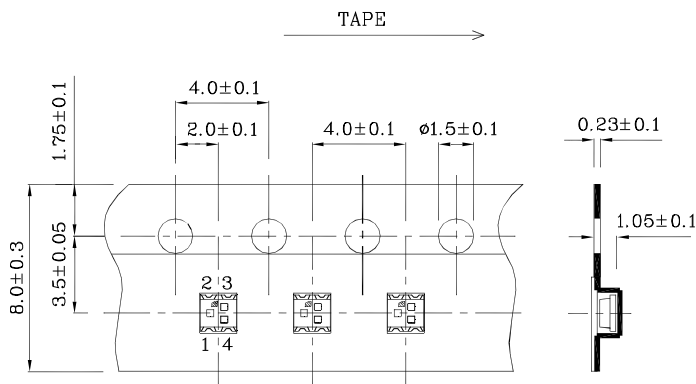
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



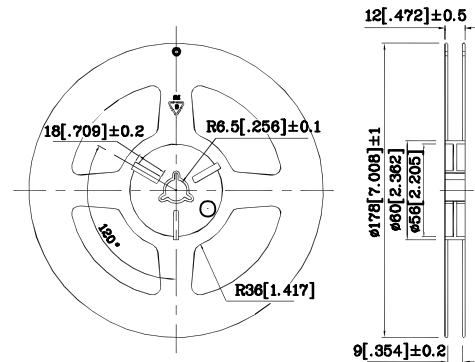
❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)



❖ Reel Dimension



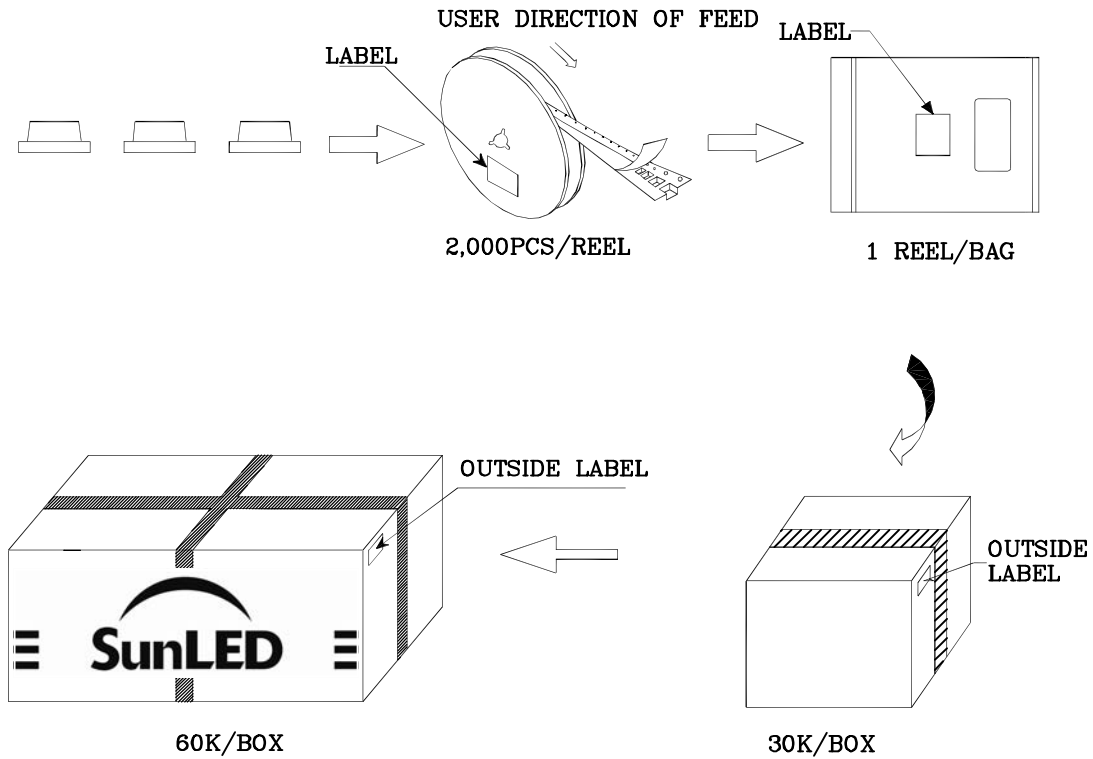
Remarks:

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



		Q.C. Q C XX XX XXXX PASSED
P/NO : XZxxx110x		
QTY : 2,000 pcs		CODE: XXX
S/N : XX		
LOT NO :		
 XXXXXXXXXXXXXXXXXXXX		
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.
4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
5. The contents within this document may not be altered without prior consent by SunLED.
6. Additional technical notes are available at <http://www.SunLEDusa.com/TechnicalNotes.asp>