

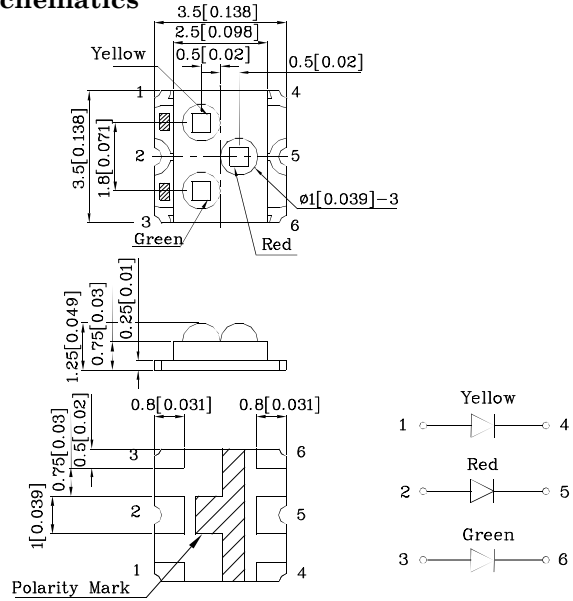
Features

- 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 ± 0.1 (0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

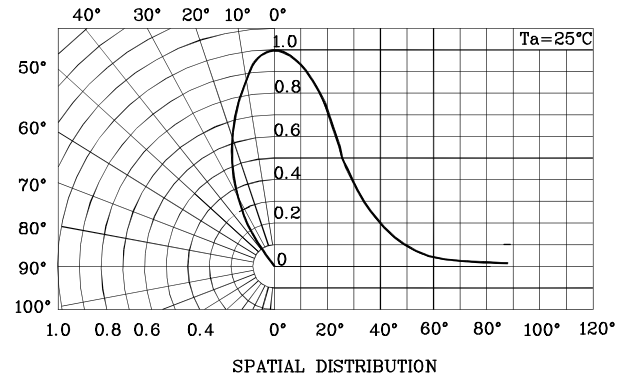
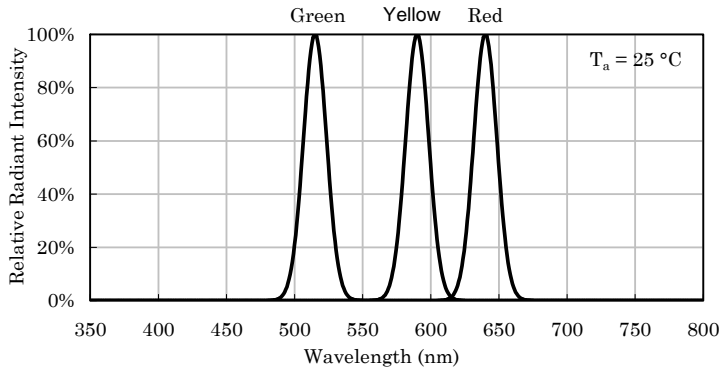
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		Yellow (AlGa InP)	Red (AlGa InP)	Green (InGa aN)	Unit
Reverse Voltage	V_R	5	5	5	V
Forward Current	I_F	30	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	140	150	150	mA
Power Dissipation	P_D	75	84	102.5	mW
Electrostatic Discharge Threshold (HBM)		3000	3000	450	V
Operating Temperature	T_A	-40 ~ +85			$^\circ\text{C}$
Storage Temperature	T_{stg}				

Operating Characteristics ($T_A=25^\circ\text{C}$)		Yellow (AlGa InP)	Red (AlGa InP)	Green (InGa aN)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	2	2.2	3.3	V
Forward Voltage (Max.) ($I_F=20\text{mA}$)	V_F	2.5	2.8	4.1	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	10	50	μA
Wavelength of Peak Emission CIE127-2007*(Typ.) ($I_F=20\text{mA}$)	λ_P	590*	640*	515*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) ($I_F=20\text{mA}$)	λ_D	590*	625*	525*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20\text{mA}$)	$\Delta\lambda$	20	20	30	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	45	27	45	pF

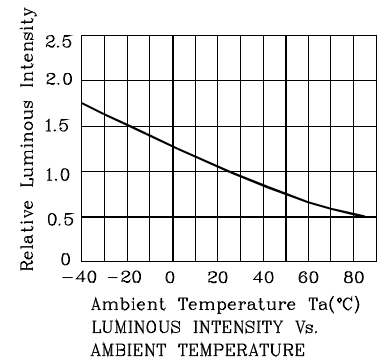
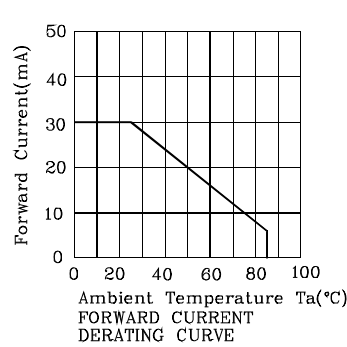
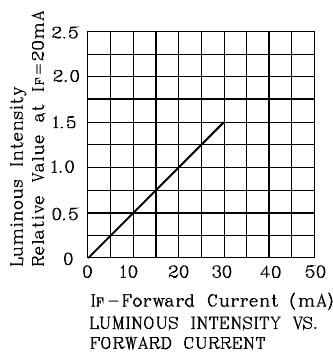
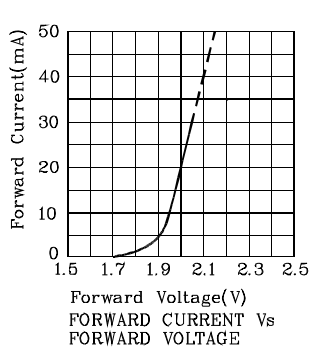
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ($I_F=20\text{mA}$) mcd		Wavelength CIE127-2007* nm λ_P	Viewing Angle 20 1/2
				min.	typ.		
XZM2CYKCRKDG92W-3	Yellow	AlGaInP	Water Clear	1000	1590	590*	50°
	Red	AlGaInP		2700	3590	640*	
	Green	InGaN		1000	1590	515*	

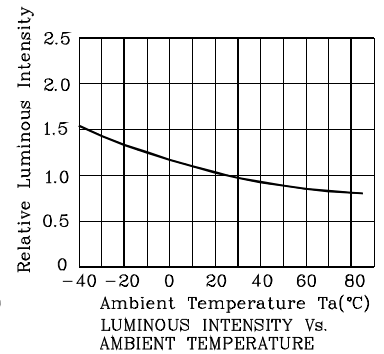
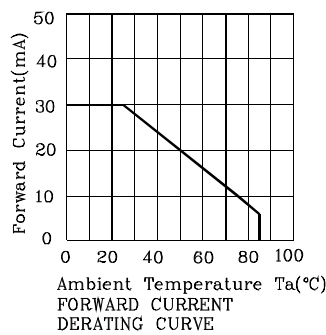
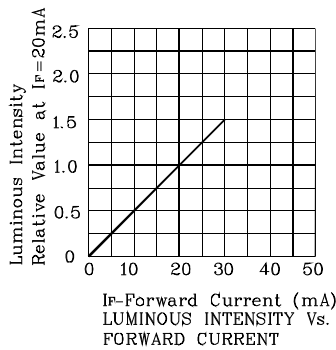
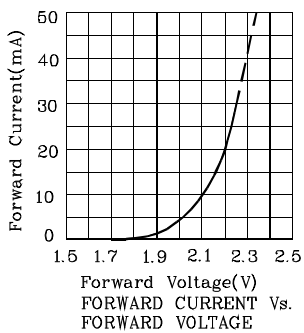
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



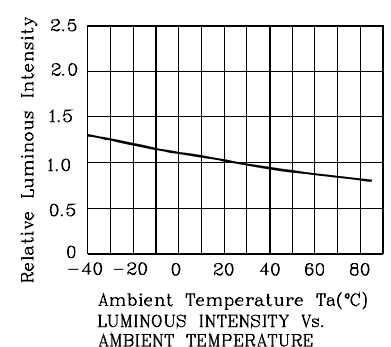
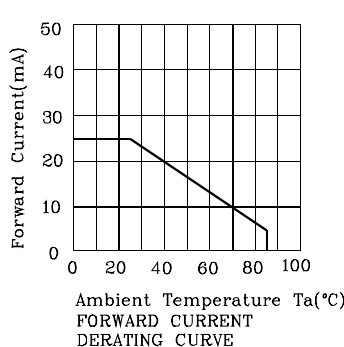
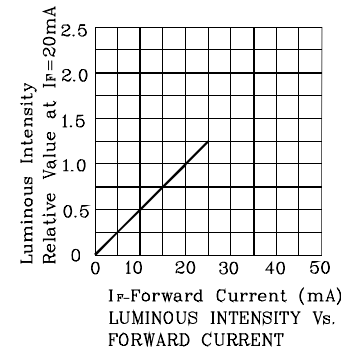
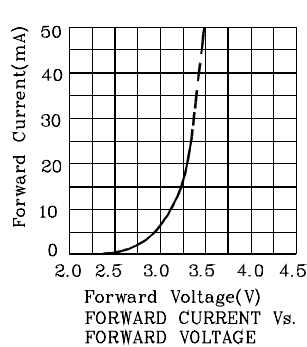
❖ **Yellow**



❖ **Red**



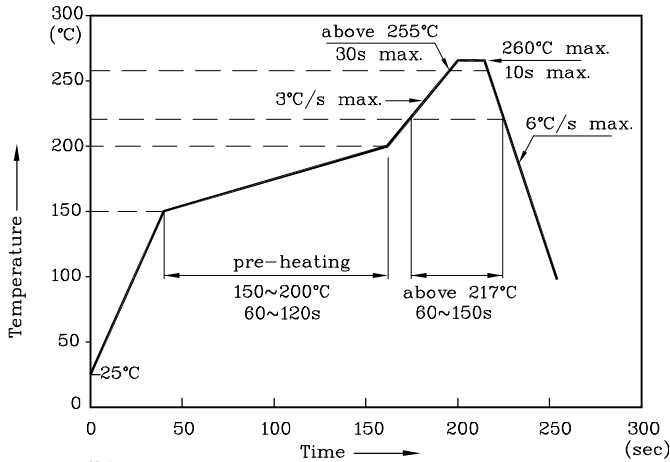
❖ **Green**



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

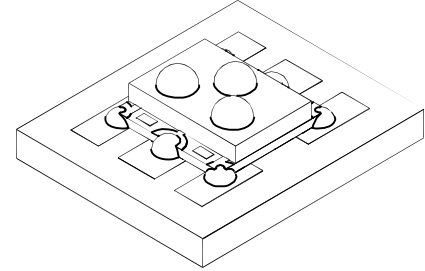
❖ The device has a single mounting surface. The device must be mounted according to the specifications.

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

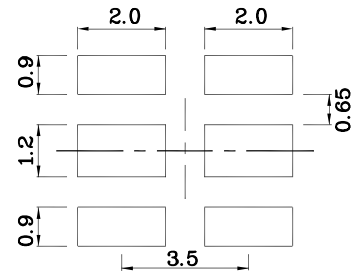


Notes:

1. All temperatures refer to the center of the package, measured on the package body surface facing up during reflow.
2. Do not apply any stress to the LED during high temperature conditions.
3. Maximum number of soldering passes: 2

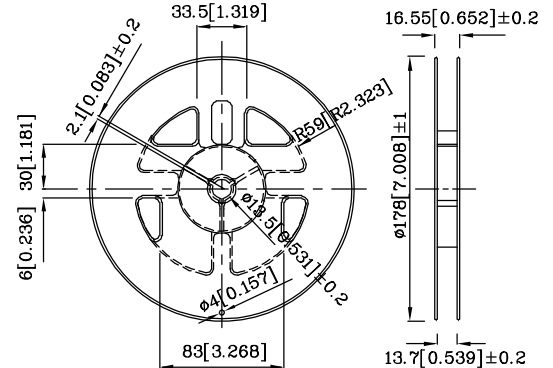
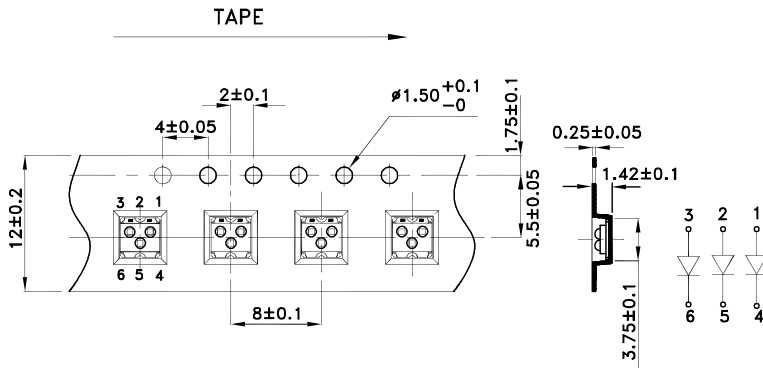


❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



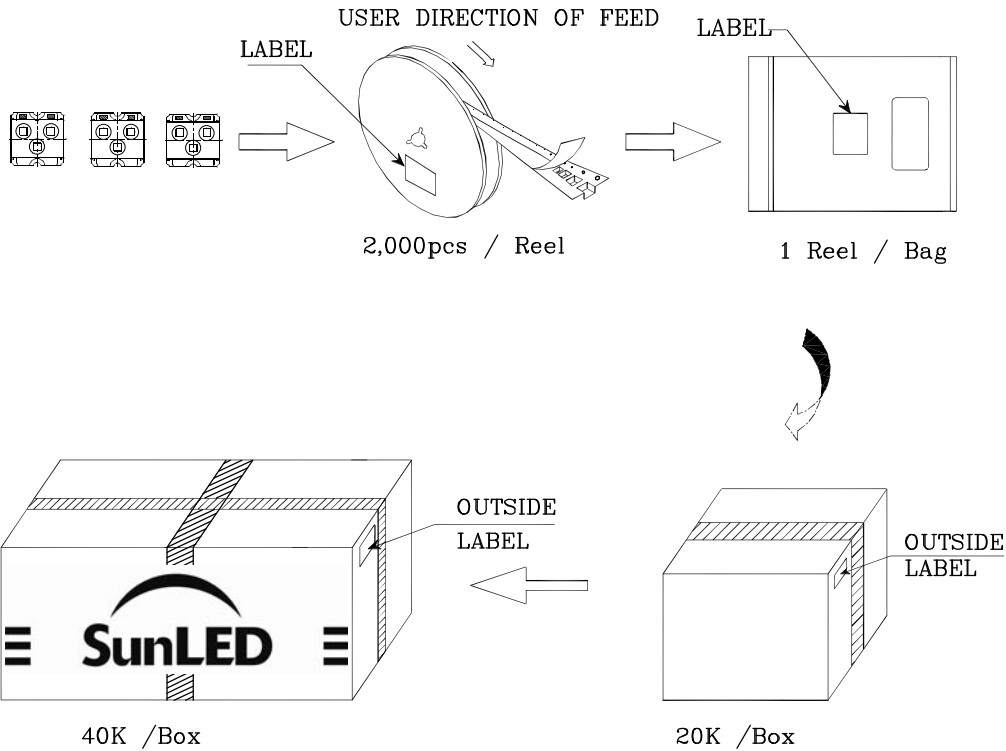
Remarks:



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



		<table border="1"> <tr> <td>Q.C.</td> <td>Q</td> <td>C</td> </tr> <tr> <td>XX</td> <td>XX</td> <td>XXXX</td> </tr> <tr> <td colspan="3" style="text-align: center;">PASSED</td> </tr> </table>	Q.C.	Q	C	XX	XX	XXXX	PASSED		
Q.C.	Q	C									
XX	XX	XXXX									
PASSED											
P/NO : XZxxx92xx											
QTY : 2,000pcs	CODE: XXX										
S/N : XX											
LOT NO:											
 XXXXXXXXXXXXXXXXXXXXXXXX											
RoHS Compliant											

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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