

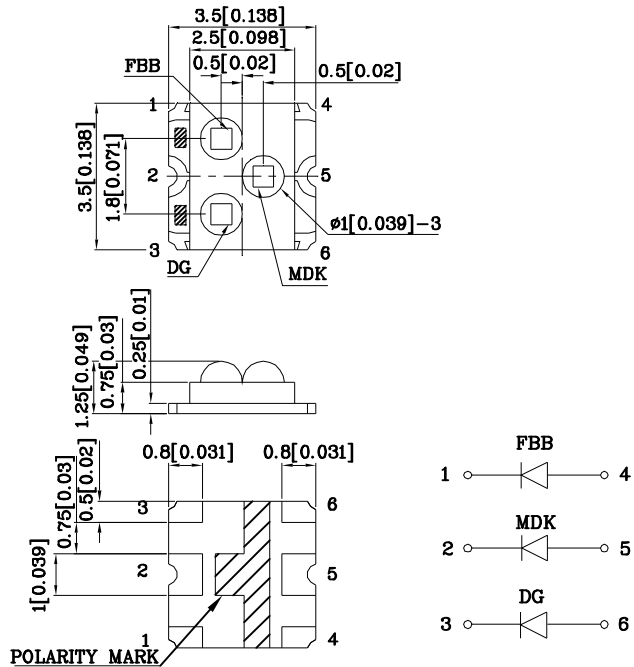
Features

- 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:

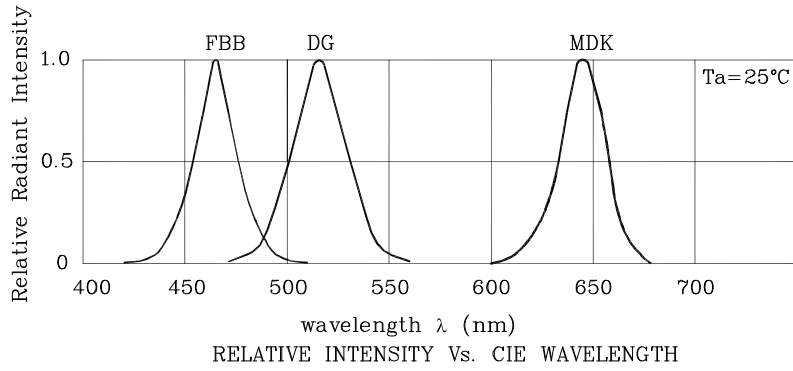
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		FBB (InGa N)	MDK (AlGa InP)	DG (InG 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}	100	185	150	mA
Power Dissipation	P_D	120	75	102.5	mW
Electrostatic Discharge Threshold (HBM)		250	-	450	V
Operating Temperature	T_A	-40 ~ +85			$^\circ\text{C}$
Storage Temperature	T_{stg}				

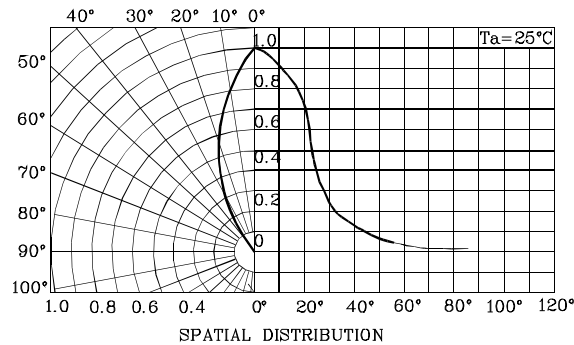
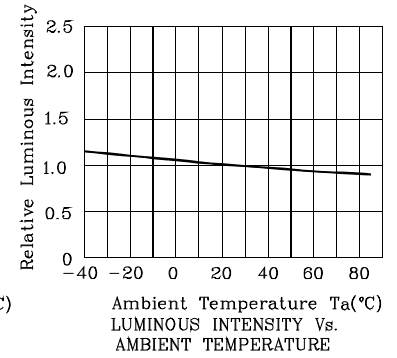
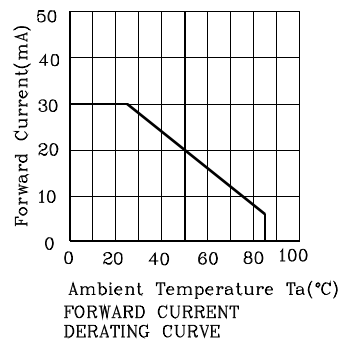
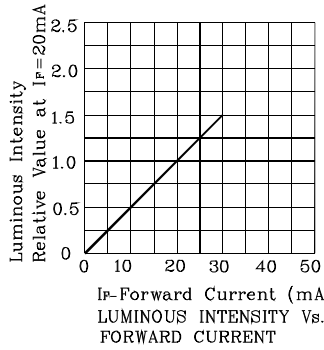
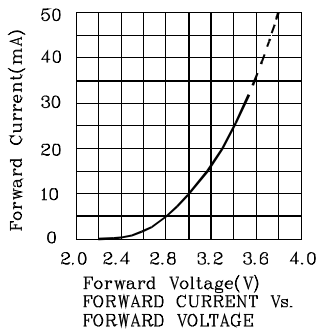
Operating Characteristics ($T_A=25^\circ\text{C}$)		FBB (InGa N)	MDK (AlGaIn P)	DG (InGaIn)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	3.3	1.95	3.3	V
Forward Voltage (Max.) ($I_F=20\text{mA}$)	V_F	4	2.5	4.1	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	50	10	50	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$)	λ_P	465*	645*	515*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$)	λ_D	470*	630*	525*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20\text{mA}$)	$\Delta\lambda$	22	28	30	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	100	35	45	pF

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 2 θ 1/2
				min.	typ.		
XZFBMDKDG92W-3	Blue	InGaN		300 300*	497 497*	465*	45 $^\circ$
	Red	AlGaInP	Water Clear	700 300*	1295 497*	645*	60 $^\circ$
	Green	InGaN		700 700*	1195 1195*	515*	40 $^\circ$

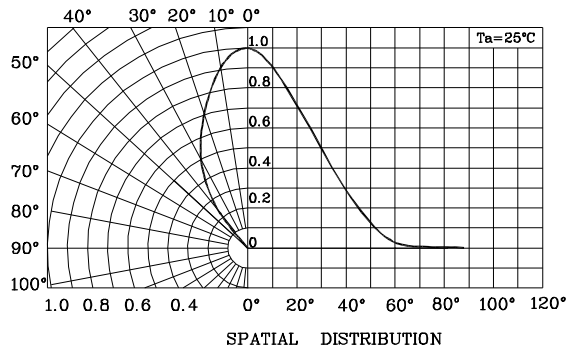
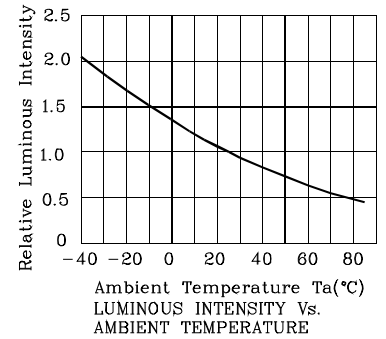
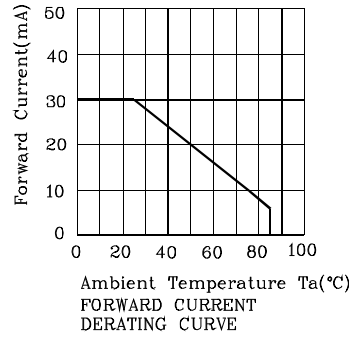
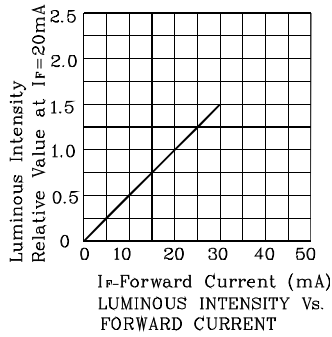
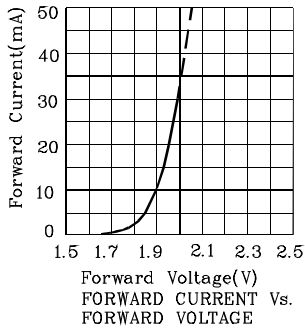
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



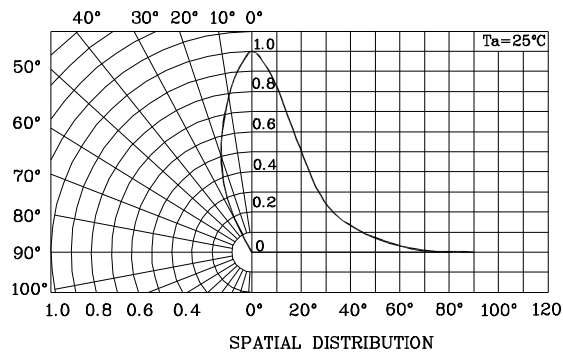
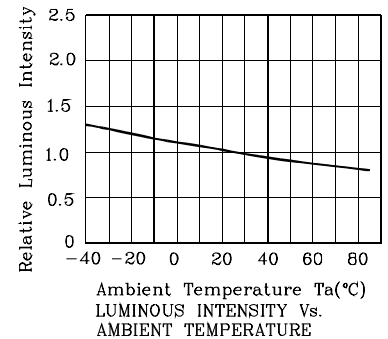
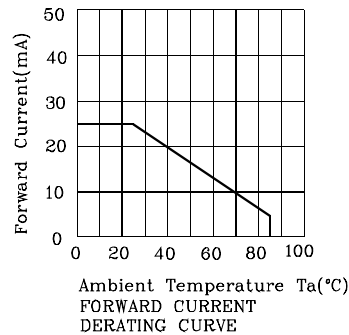
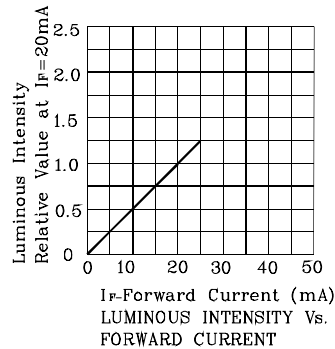
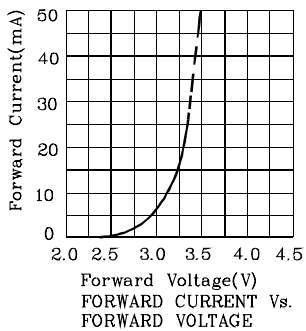
❖ FBB



❖ MDK



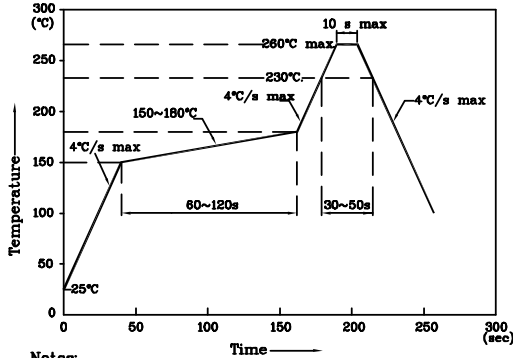
❖ DG



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

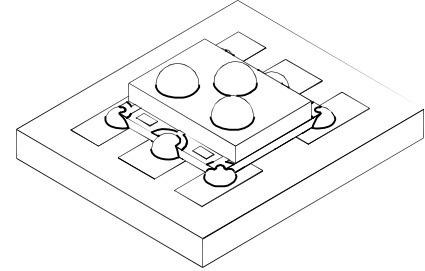
❖ The device has a single mounting surface. The device must be mounted according to the specifications.

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

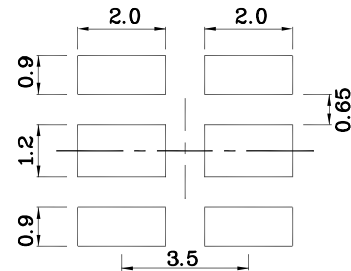


Notes:

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

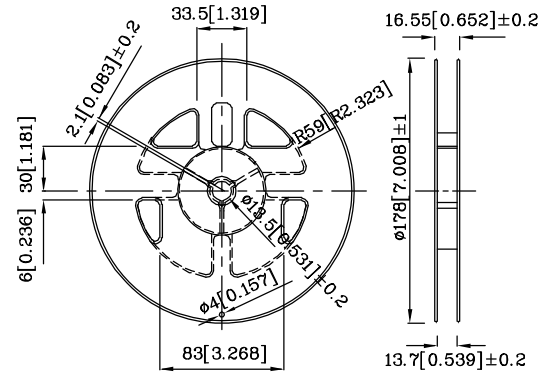
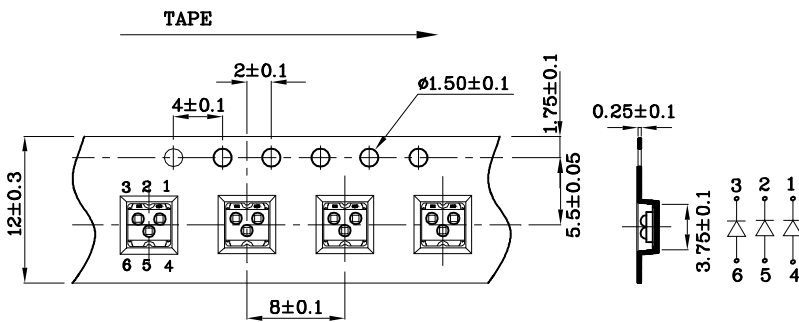


❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



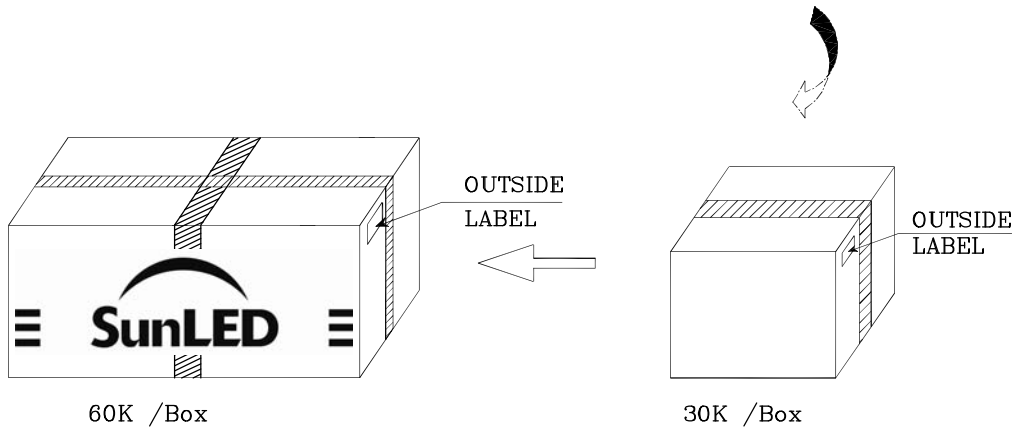
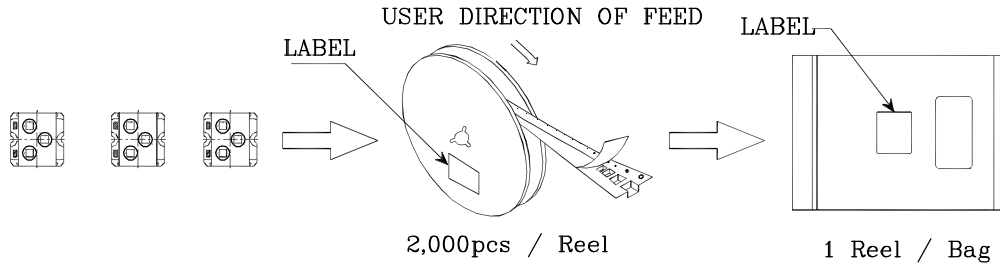
Remarks:



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



		<table border="1"> <tr> <td>Q.C.</td> <td>Q C</td> </tr> <tr> <td>XX</td> <td>XX XXXX</td> </tr> <tr> <td colspan="2" 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 : XZxxx92x-3								
QTY : 2,000pcs		CODE: XXX						
S/N : XX								
LOT NO:								
 XXXXXXXXXXXXXXXXXXXXX								
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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