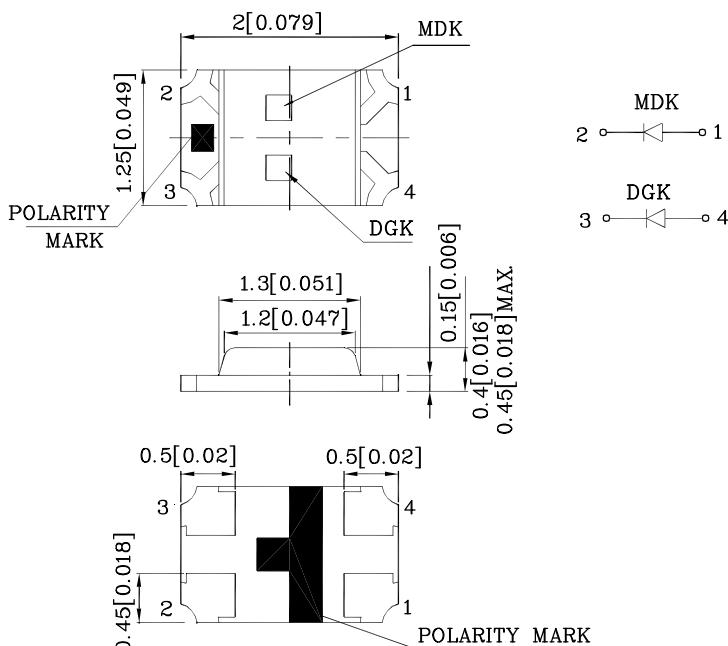


**Features**

- 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:**

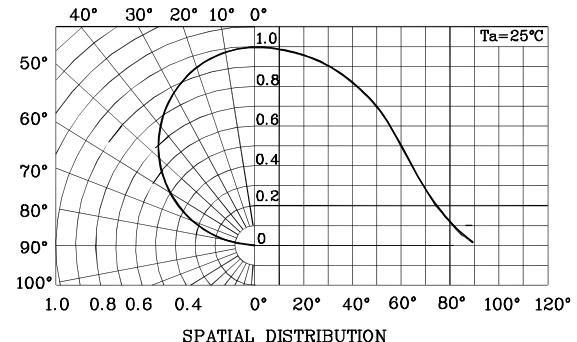
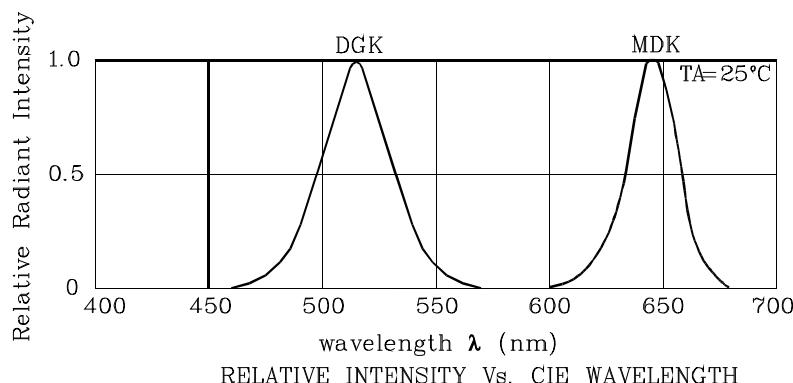
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1(0.004")$  unless otherwise noted.
3. Specifications are subject to change without notice.

<b>Absolute Maximum Ratings</b> (T <sub>A</sub> =25°C)		<b>MDK</b> (AlGaInP)	<b>DGK</b> (InGaN)	<b>Unit</b>
Reverse Voltage	V <sub>R</sub>	5	5	V
Forward Current	I <sub>F</sub>	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i <sub>FS</sub>	185	150	mA
Power Dissipation	P <sub>D</sub>	75	102.5	mW
Electrostatic Discharge Threshold (HBM)		-	450	V
Operating Temperature	T <sub>A</sub>	-40 ~ +85		°C
Storage Temperature	T <sub>Stg</sub>	-40 ~ +85		

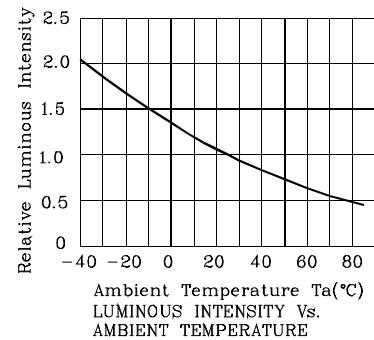
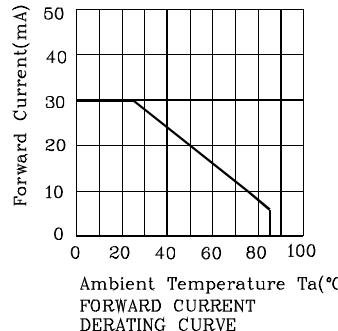
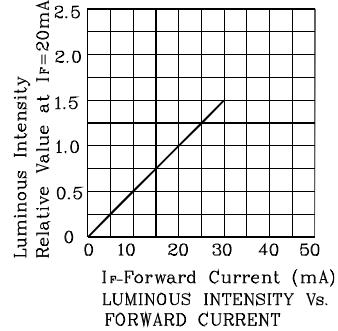
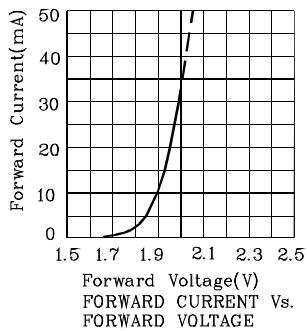
<b>Operating Characteristics</b> (T <sub>A</sub> =25°C)		<b>MDK</b> (AlGaInP)	<b>DGK</b> (InGaN)	<b>Unit</b>
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	V <sub>F</sub>	1.95	3.3	V
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	V <sub>F</sub>	2.5	4.1	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	I <sub>R</sub>	10	50	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λP	645*	515*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	630*	525*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	△λ	28	35	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	C	35	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =20mA) mcd	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
XZMDKDGK54W-4	Red	AlGaInP	Water Clear	120 40*	248 79*	645*
	Green	InGaN		200 200*	279 279*	515*

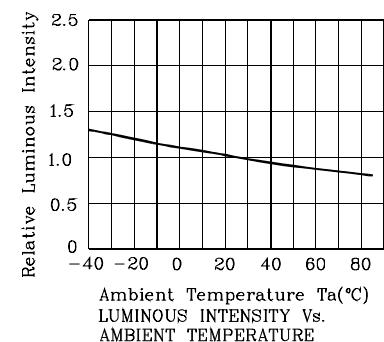
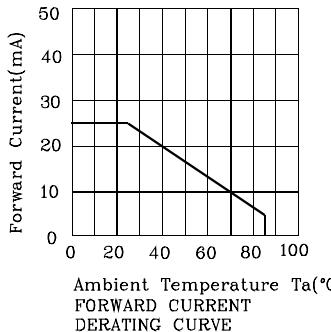
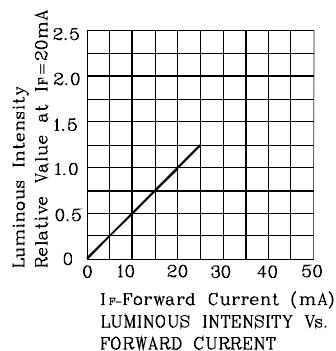
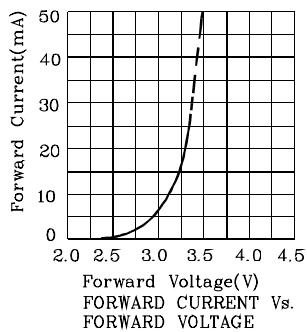
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



### ❖ MDK



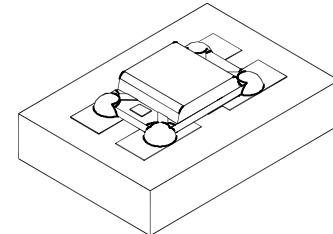
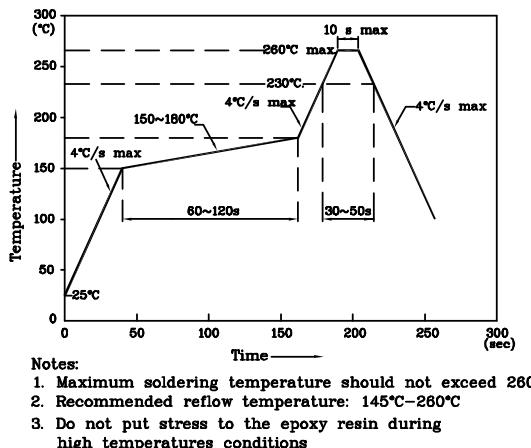
### ❖ DGK



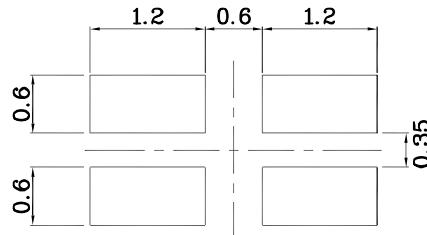
LED is recommended for reflow soldering and soldering profile is shown below.

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

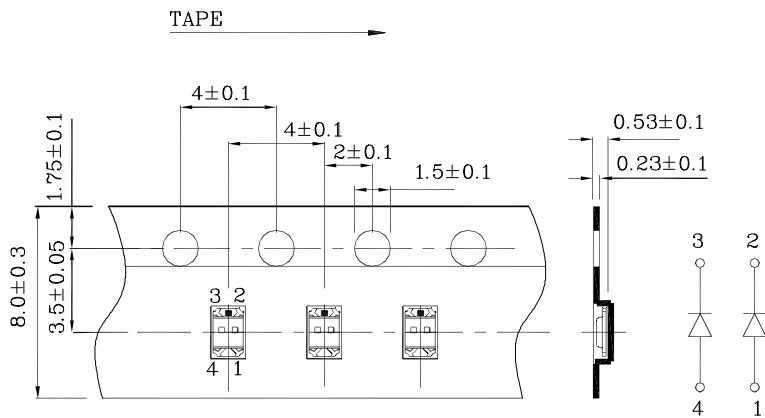
Reflow Soldering Profile for SMD Products (Pb-Free Components)



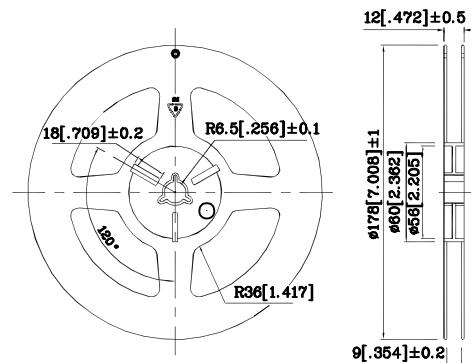
❖ Recommended Soldering Pattern  
(Units : mm; Tolerance:  $\pm 0.1$ )



❖ Tape Specification (Units : mm)



❖ Reel Dimension



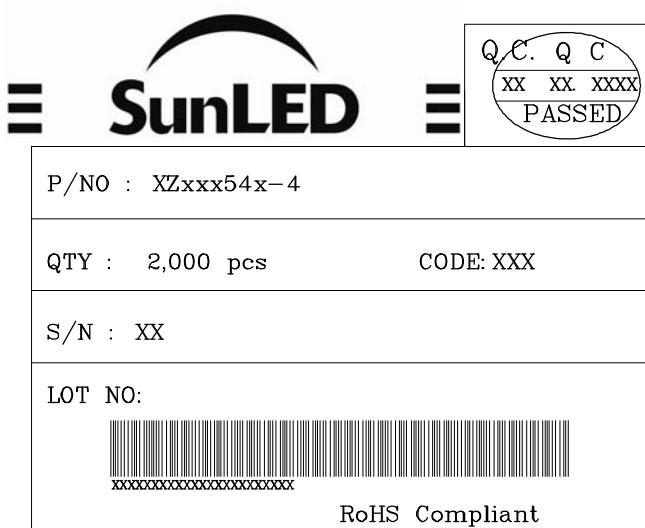
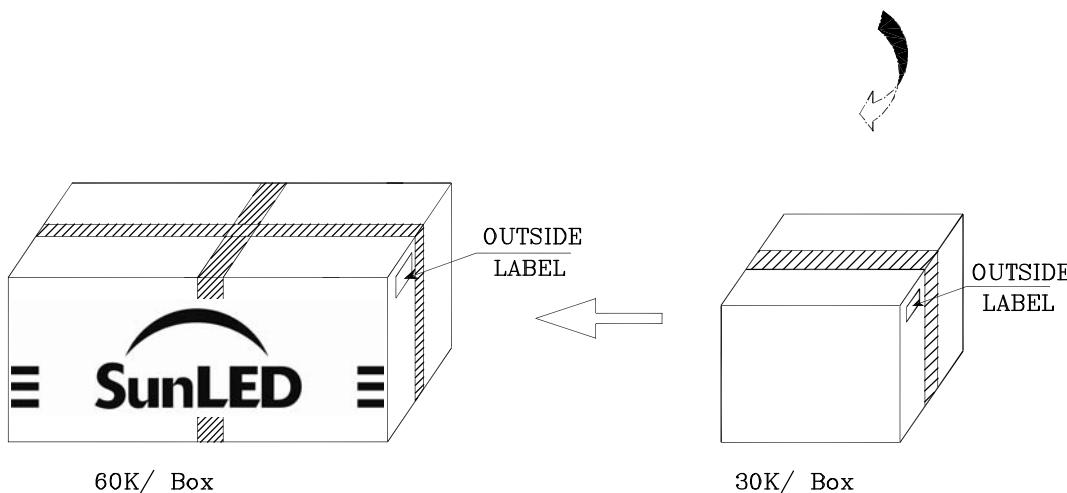
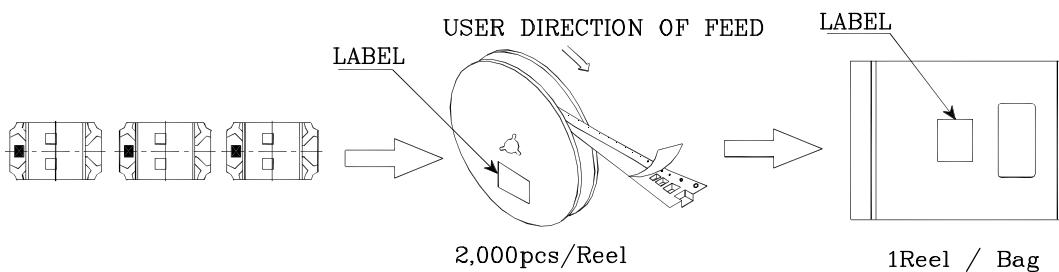
Remarks:

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



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