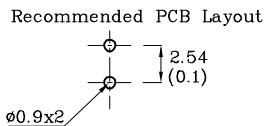
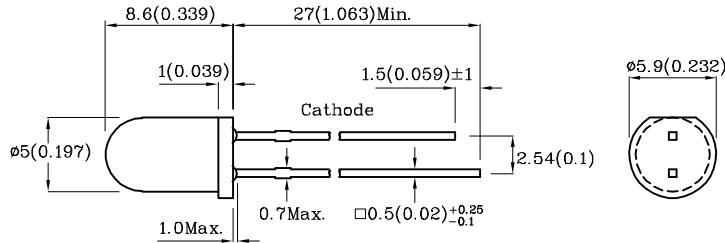


Features

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Specifications are subject to change without notice.

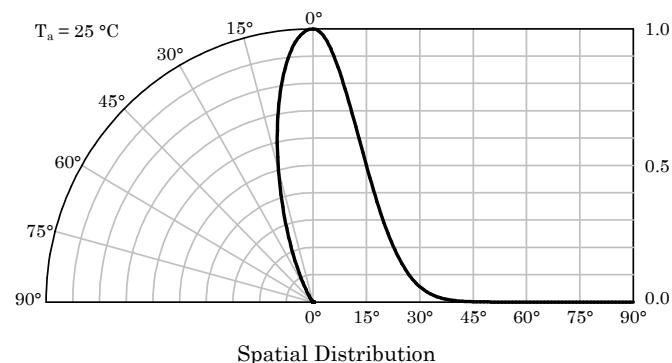
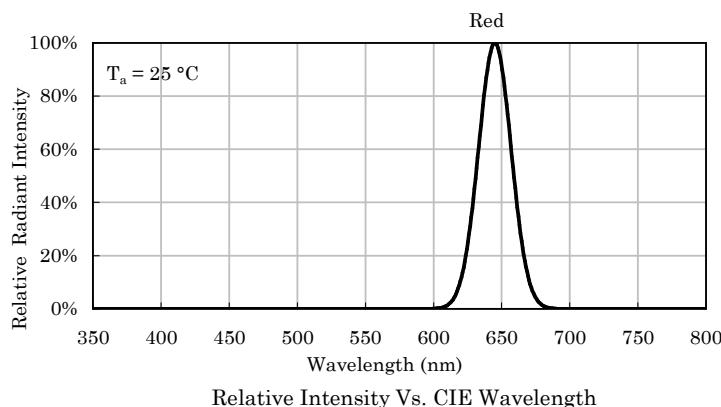
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		Red (AlGaInP)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{fs}	185	mA
Power Dissipation	P_D	75	mW
Operating Temperature	T_A	-40 ~ +85	$^\circ\text{C}$
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds		
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds		

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)

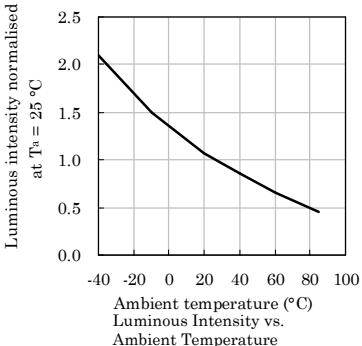
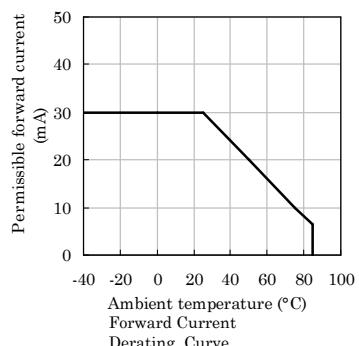
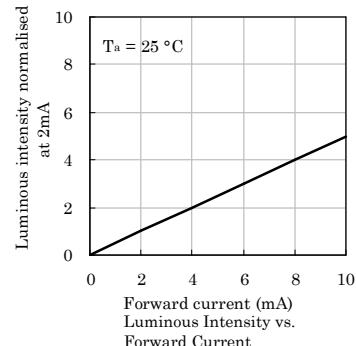
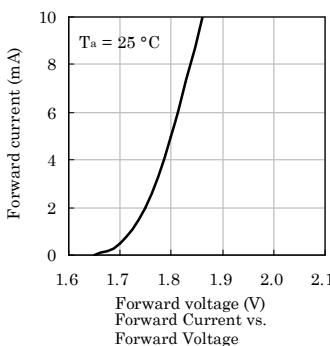
Operating Characteristics ($T_A=25^\circ\text{C}$)		Red (AlGaInP)	Unit
Forward Voltage (Typ.) ($I_F=2\text{mA}$)	V_F	1.75	V
Forward Voltage (Max.) ($I_F=2\text{mA}$)	V_F	2.2	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=2\text{mA}$)	λP	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=2\text{mA}$)	λD	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=2\text{mA}$)	$\Delta\lambda$	28	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	35	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ($I_F=2\text{mA}$) mcd	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
XCMDK12D	Red	AlGaInP	Red Diffused	50 18*	98 34*	645* 30°

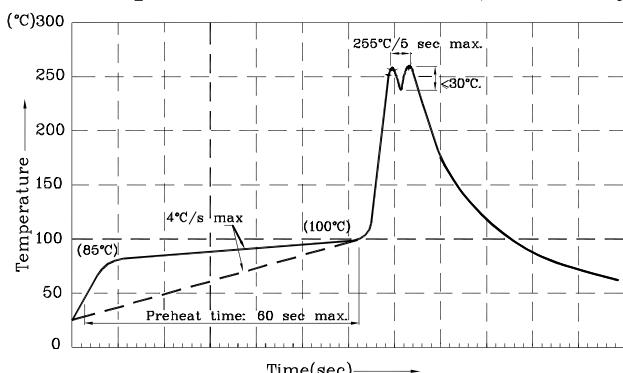
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ Red



Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



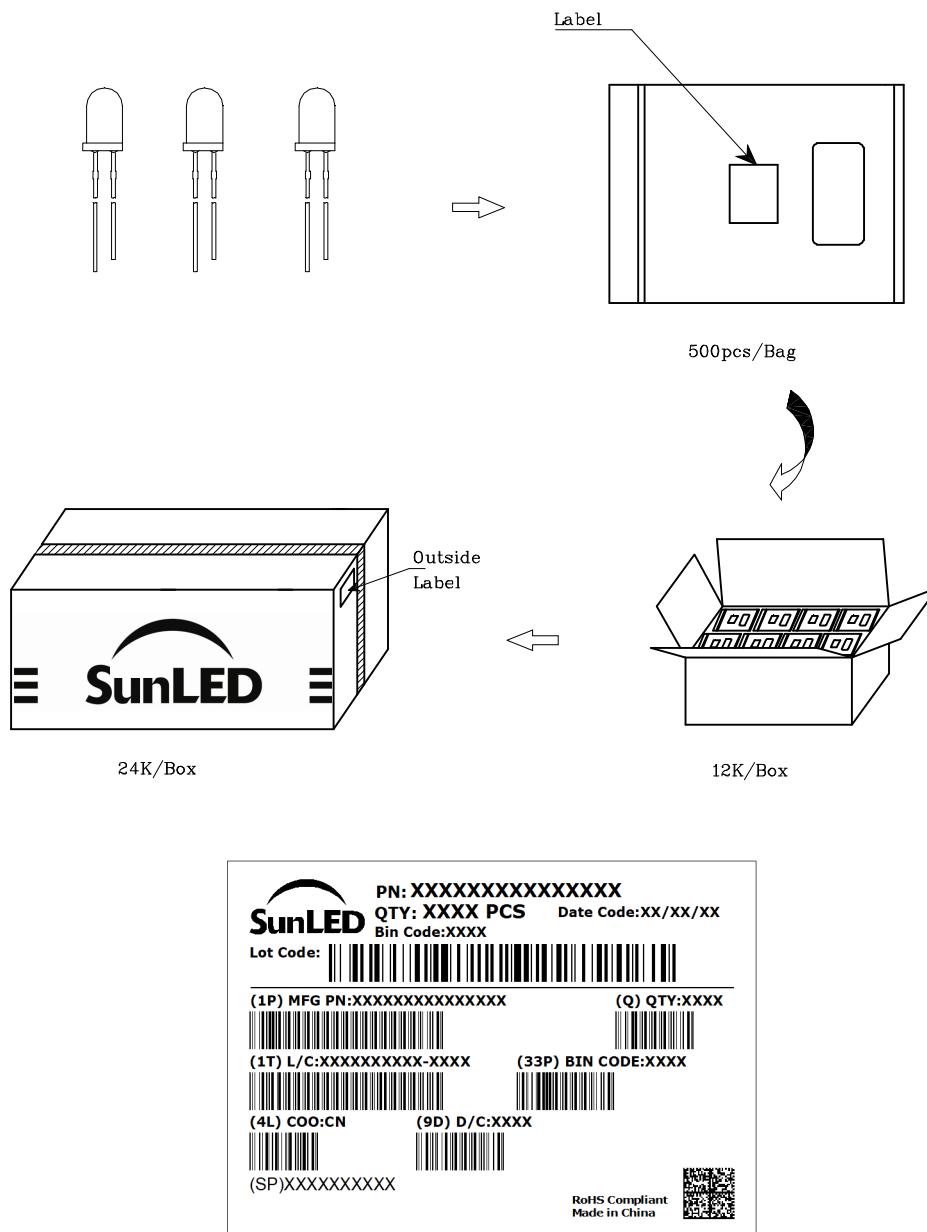
Remarks:

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: $\pm 1\text{nm}$
2. Luminous Intensity / Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



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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.
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