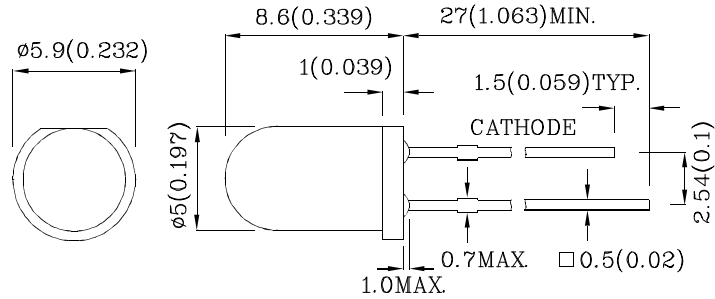


**Features**

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



**Package Schematics**



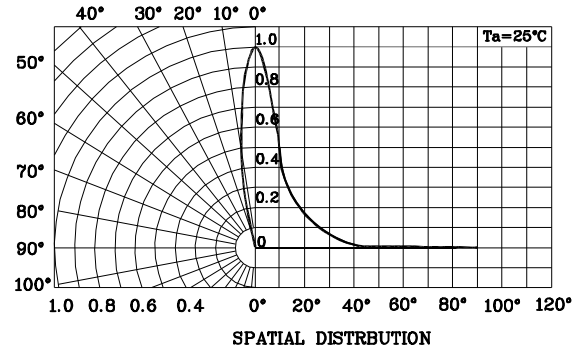
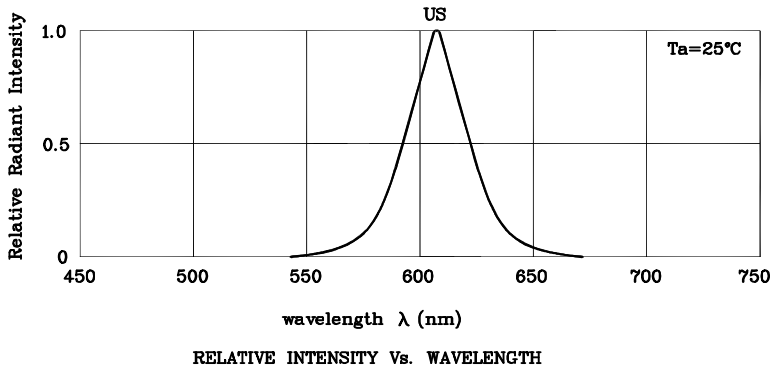
Notes:

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.

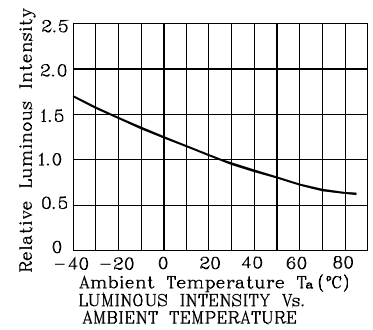
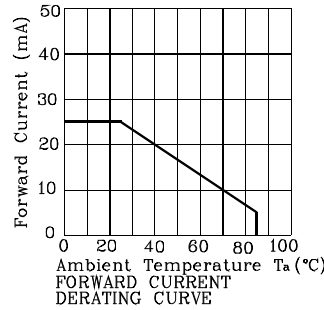
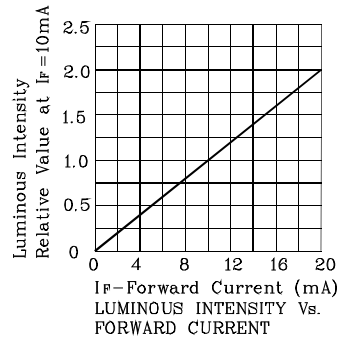
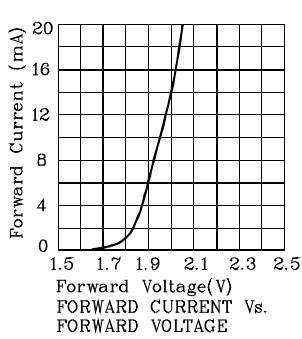
Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )		US (GaAsP/GaP)	Unit
Reverse Voltage	$V_R$	5	V
Forward Current	$I_F$	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{FS}$	145	mA
Power Dissipation	$P_D$	62.5	mW
Operating Temperature	$T_A$	-40 ~ +85	°C
Storage Temperature	$T_{stg}$	-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		

Operating Characteristics ( $T_A=25^\circ\text{C}$ )		US (GaAsP/GaP)	Unit
Forward Voltage (Typ.) ( $I_F=10\text{mA}$ )	$V_F$	1.95	V
Forward Voltage (Max.) ( $I_F=10\text{mA}$ )	$V_F$	2.5	V
Reverse Current (Max.) ( $V_R=5\text{V}$ )	$I_R$	10	$\mu\text{A}$
Wavelength of Peak Emission (Typ.) ( $I_F=10\text{mA}$ )	$\lambda_P$	607	nm
Wavelength of Dominant Emission (Typ.) ( $I_F=10\text{mA}$ )	$\lambda_D$	610	nm
Spectral Line Full Width At Half-Maximum (Typ.) ( $I_F=10\text{mA}$ )	$\Delta\lambda$	35	nm
Capacitance (Typ.) ( $V_F=0\text{V}$ , $f=1\text{MHz}$ )	C	15	pF

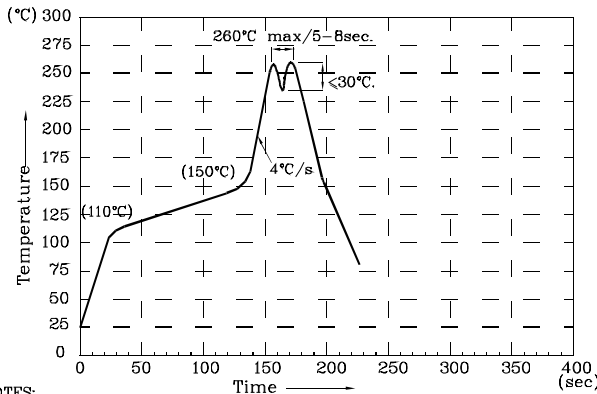
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ( $I_F=10\text{mA}$ ) mcd		Wavelength nm $\lambda_P$	Viewing Angle 20 1/2
				min.	typ.		
LUS12C	Orange	GaAsP/GaP	Orange Transparent	50	98	607	20°



❖ US



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



NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.During wave soldering, the PCB top-surface temperature should be kept below 105°C.
- 5.No more than once.

Remarks:

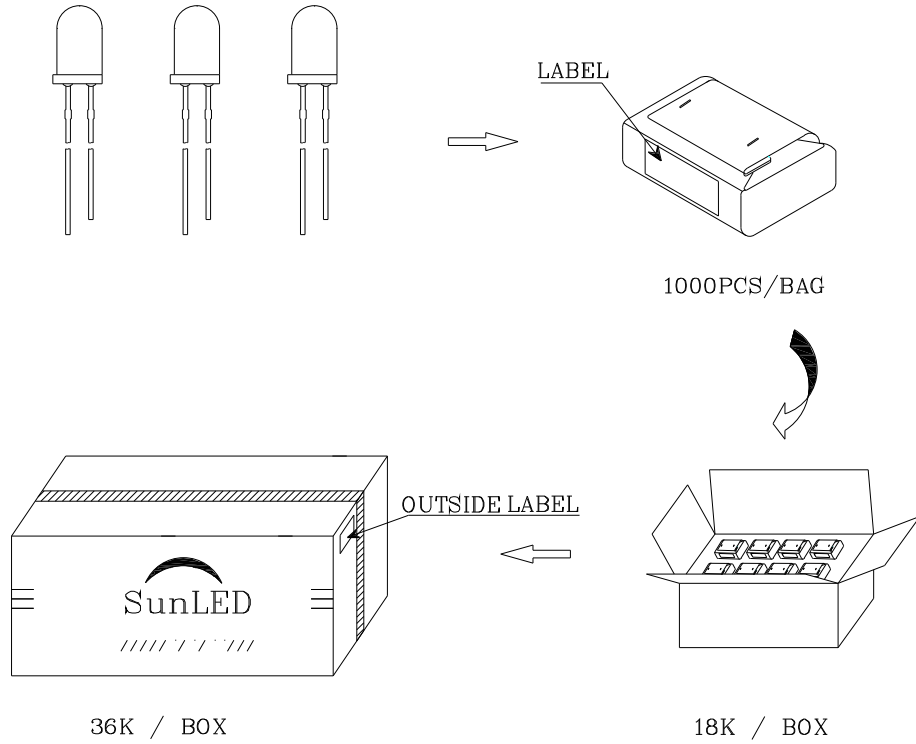

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:



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" style="margin: auto;"> <tr><td style="padding: 2px;">Q.C.</td></tr> <tr><td style="text-align: center;">QC</td></tr> <tr><td style="text-align: center;">XX XX XXXX</td></tr> <tr><td style="text-align: center;">PASSED</td></tr> </table>	Q.C.	QC	XX XX XXXX	PASSED
Q.C.					
QC					
XX XX XXXX					
PASSED					
P/NO : Lxx12x					
QTY : 1000 pcs	CODE: XXX				
S/N : XX					
LOT NO:					
 XXXXXXXXXXXXXXXXXXXXXXXX					
RoHS Compliant					