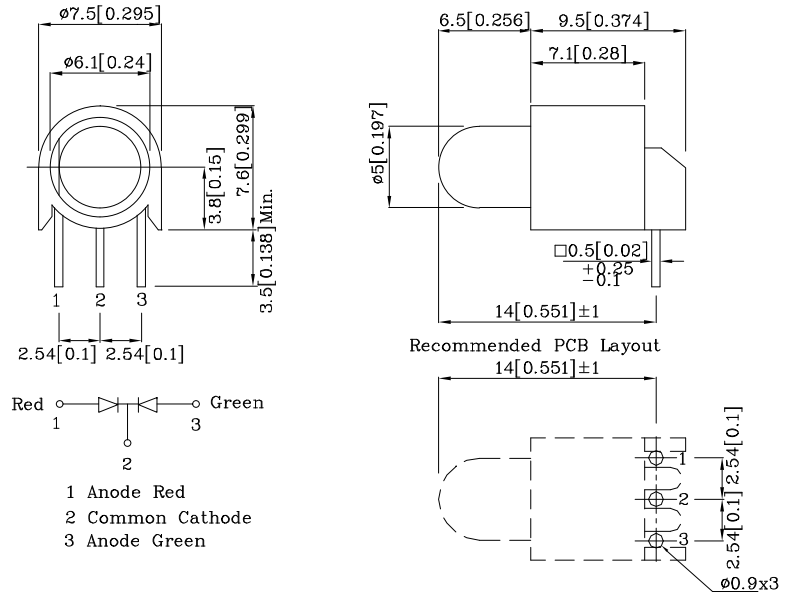


Features

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- Reliable & robust
- 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°C)		Red (GaAsP/ GaP)	Green (GaP)	Unit
Reverse Voltage	V _R	5	5	V
Forward Current	I _F	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	160	140	mA
Power Dissipation	P _D	75	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			

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)

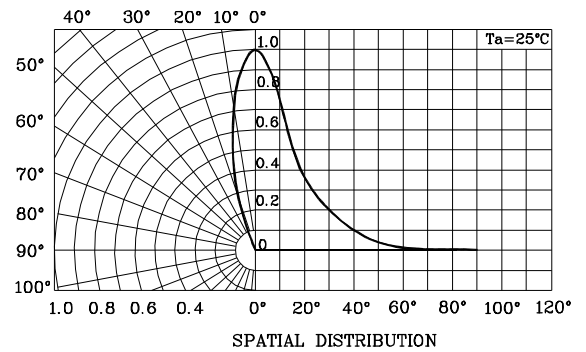
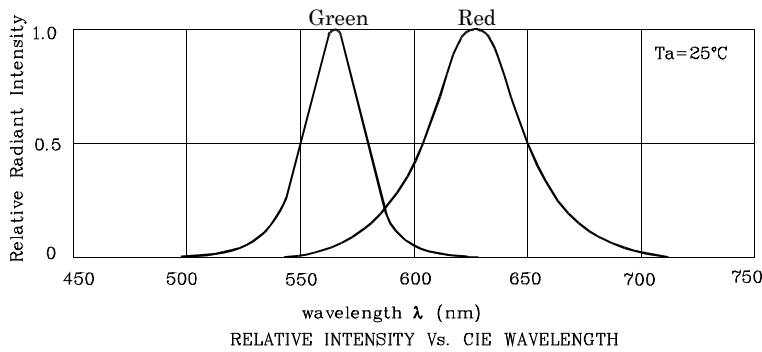
Operating Characteristics ($T_A=25^\circ\text{C}$)		Red (GaAsP/ GaP)	Green (GaP)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	2	2.2	V
Forward Voltage (Max.) ($I_F=20\text{mA}$)	V_F	2.5	2.5	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	10	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$)	λ_P	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$)	λ_D	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20\text{mA}$)	$\Delta\lambda$	45	30	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	15	15	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
XVB1LUGR59M	Red	GaAsP/GaP	White Diffused	min. 30 typ. 20*	627*	30 $^\circ$
	Green	GaP		min. 20 typ. 20*	565*	

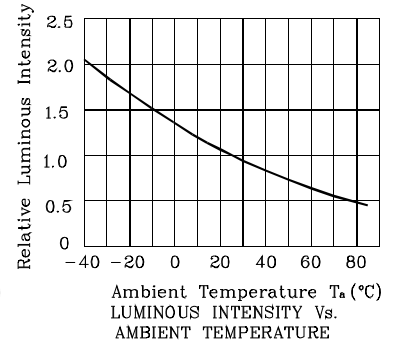
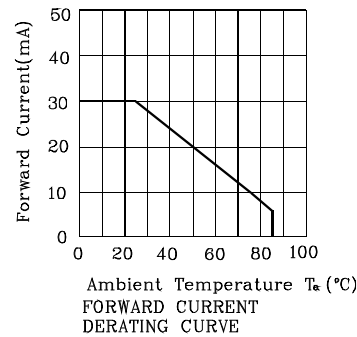
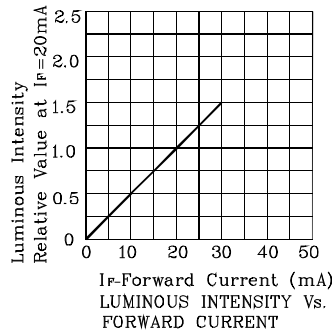
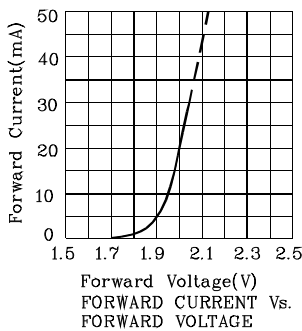
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Nov 09,2016

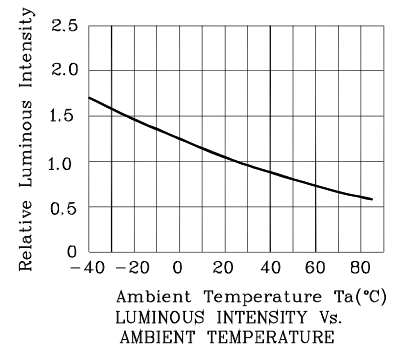
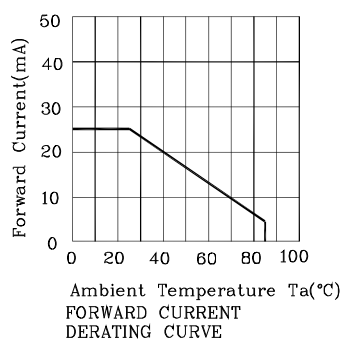
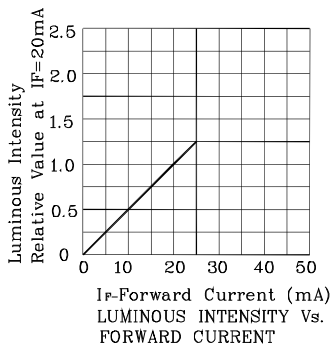
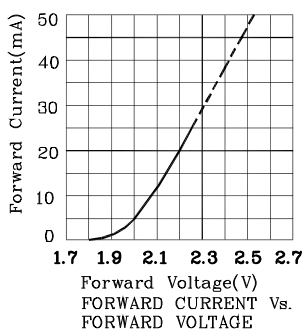
XDSA2862 V8-X Layout: Maggie L.



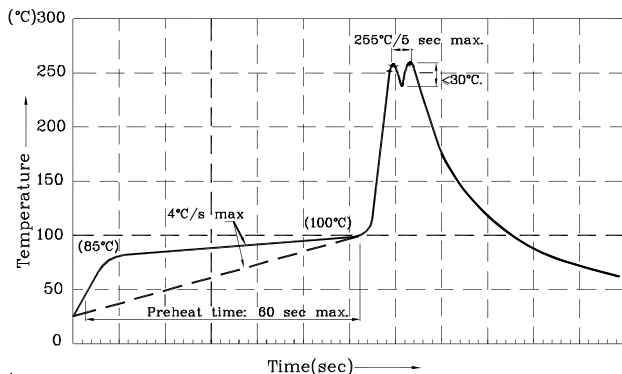
❖ Red



❖ Green



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



Notes:

1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).
3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
4. Fixtures should not incur stress on the component when mounting and during soldering process.
5. SAC 305 solder alloy is recommended.
6. No more than one wave soldering pass.

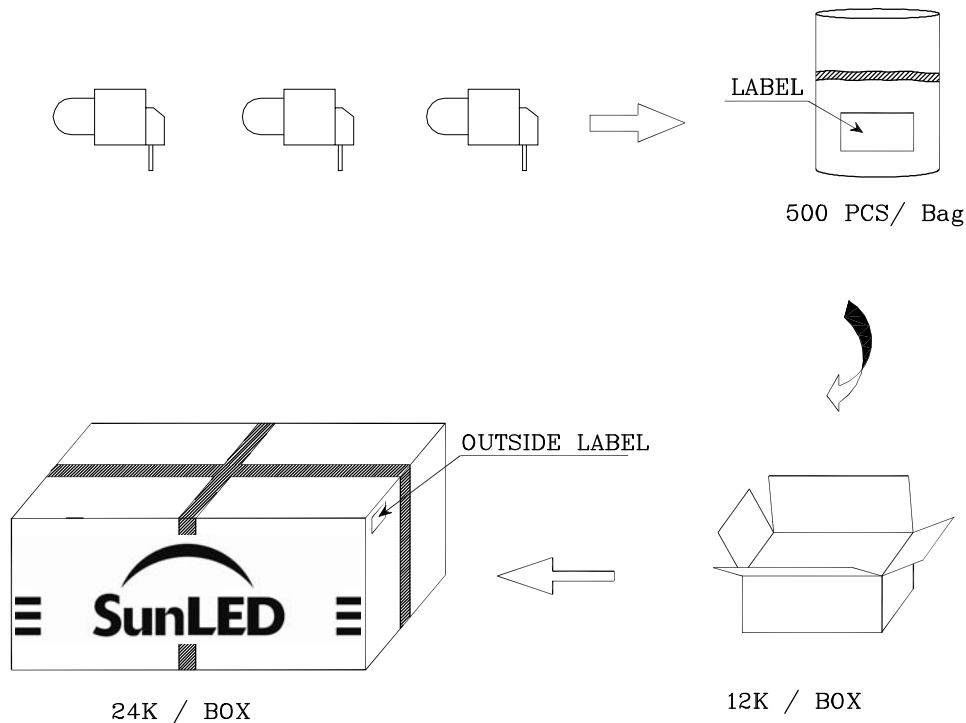
Remarks:



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



		Q.C. Q C XX XX XX PASSED
P/NO : XVB1Lxx59x		
QTY : 500 pcs		CODE: XXX
S/N : XX		
LOT NO:  XXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		

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2. Contents within this document are subject to improvement and enhancement changes without notice.
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6. Additional technical notes are available at <http://www.SunLEDusa.com/TechnicalNotes.asp>