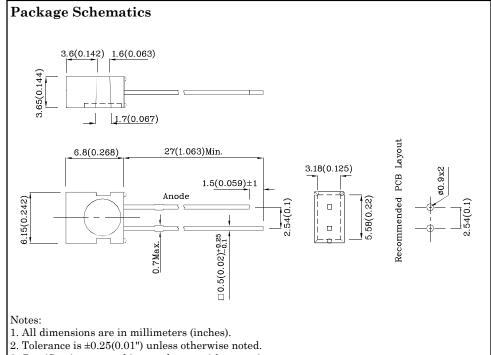


Features

- Reliable & robust
- Low power consumption
- RoHS compliant







3. Specifications are subject to change without notice.

Absolute Maximum Ratings ($T_A=25^{\circ}\mathrm{C}$)		Red (GaAsP/GaP)	Unit	
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	160	mA	
Power Dissipation	P_{D}	75	mW	
Operating Temperature	$T_{\rm A}$	T_A -40 ~ +85		
Storage Temperature	Tstg	-40 ~ +85	°C	
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°C)		Red (GaAsP/GaP)	Unit
Forward Voltage (Typ.) $(I_F=10 \text{mA})$	V_{F}	1.9	V
Forward Voltage (Max.) (I _F =10mA)	V_{F}	2.3	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λР	627*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	λD	617*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$\triangle \lambda$	45	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF

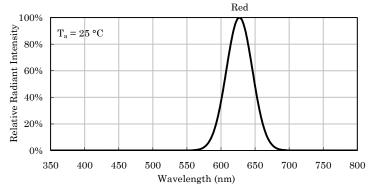
Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} \text{Luminous Intensity} \\ \text{CIE127-2007*} \\ \text{(I}_{\text{F}}\text{=}10\text{mA)} \\ \text{mcd} \end{array}$		Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XEUR21D	Red	GaAsP/GaP	Red Diffused	3 2*	5 3.8*	627*	140°

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

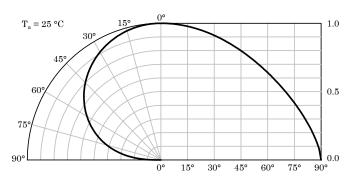
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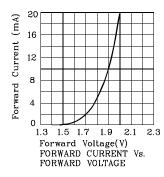


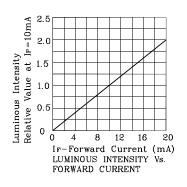
Relative Intensity Vs. CIE Wavelength

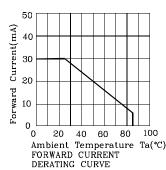


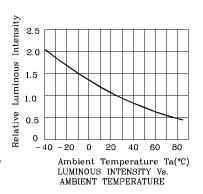
Spatial Distribution

Red

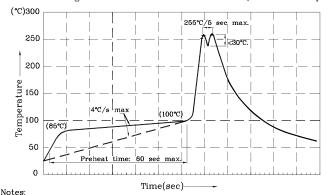








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



Notes. I. 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 $260^{\circ}C$ 2. Peak wave soldering temperature between $245^{\circ}C \sim 255^{\circ}C$ for 3 sec

(5 sec max).

3.Do not apply stress to the epoxy resin while the temperature is above $85\,^\circ\text{C}.$ 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: +/-1nm

2. Luminous Intensity / Luminous Flux: +/-15%

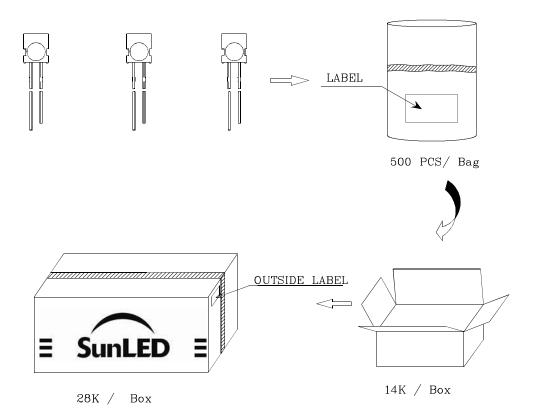
3. Forward Voltage: +/-0.1V

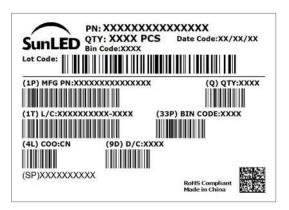
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





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