

T-1 3/4 (5mm) BLINKING LED LAMP

# **Features**

 $\bullet$  5mm package with built-in blinking IC

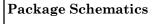
• Blinking frequency: 3.0Hz to 1.5Hz

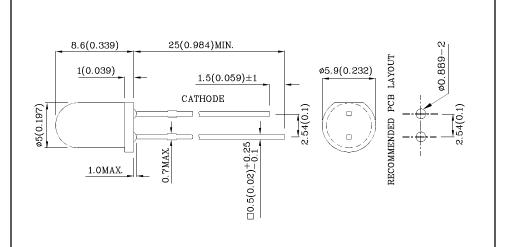
ullet Operation voltage: 3.5V to 14V

• RoHS compliant.









## 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 <sub>A</sub> =25°C)		MR (GaAlAs)	Unit		
Reverse Voltage	$V_{\rm R}$	0.5	V		
Forward Voltage	$V_{\mathrm{F}}$	14	V		
Power Dissipation	$P_D$	310	mW		
Operating Temperature	T <sub>A</sub> -40 ~ +70		°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				

Operating Characteristics (T <sub>A</sub> =25°C)		MR (GaAlAs)	Unit
Forward Current (Min.) (V <sub>F</sub> =3.5V)	$I_{\mathrm{F}}$	8	mA
Forward Current (Typ.) (V <sub>F</sub> =5V)	$I_{\mathrm{F}}$	22	mA
Supply Current (Typ.) (V <sub>F</sub> =3.5V)	$I_{SON}$	8	mA
Supply Current (Typ.) (V <sub>F</sub> =14V)	$I_{SON}$	44	mA
Blink Frequency (Min.~Max.) (V <sub>F</sub> =3.5V~14V)	f	1.5~3	Hz
Wavelength of Peak Emission CIE127-2007* (Typ.)	λΡ	655*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.)	λD	640*	nm
Spectral Line Full Width At Half-Maximum (Typ.)	$\triangle \lambda$	20	nm

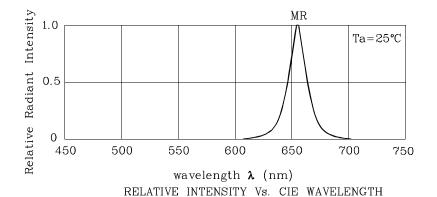
Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} \text{Luminous Intensity} \\ \text{CIE127-2007*} \\ \text{(V}_{\text{F}}\text{=}9\text{V)} \\ \text{mcd} \end{array}$		Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XBMR53D	Red	GaAlAs	Red Diffused	120 40*	198 79*	655*	60°

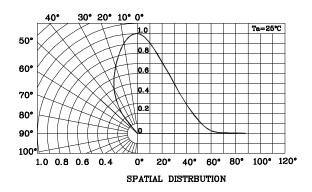
<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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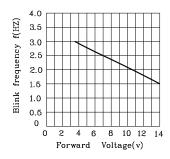


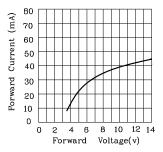




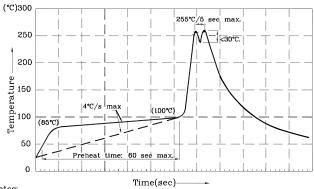


## **♦** MR





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
- (8 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.

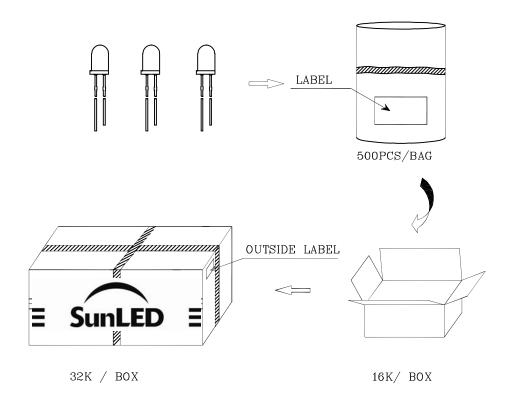
  5.SAC 305 solder alloy is recommended.

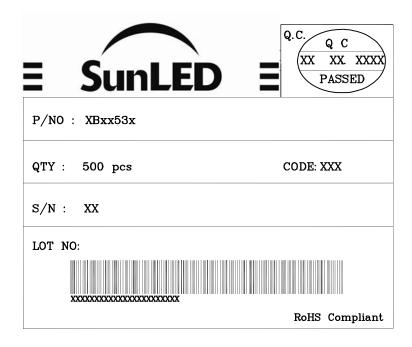
  6.No more than one wave soldering pass.





## PACKING & LABEL SPECIFICATIONS





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- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$

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XDSA2650 V7-X Layout: Maggie L.