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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

## **Features**

- 5mm package with built-in blinking IC
- Blinking frequency: 3.0Hz to 1.5Hz
- Operation voltage: 3.5V to 14V
- RoHS compliant.







ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

# Package Schematics 8.6(0.339) 1.5(0.059)±1 Cathode Cathode Cathode Recommended PCB Layout Recom

### 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)	Red (GaAlAs)	Unit		
Reverse Voltage	$V_{\mathrm{R}}$	0.5	V	
Forward Voltage	$V_{\mathrm{F}}$	14	V	
Power Dissipation	$P_{D}$	310	mW	
Operating Temperature	$T_{\rm A}$	-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			

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 <sub>A</sub> =25°C)	Red (GaAlAs)	Unit	
Forward Current (Min.) (V <sub>F</sub> =3.5V)	$I_{\mathrm{F}}$	I <sub>F</sub> 8	
Forward Current (Typ.) (V <sub>F</sub> =5V)	$I_{\mathrm{F}}$	22	mA
Supply Current (Typ.) $I_{SO}$ $I_{SO}$		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

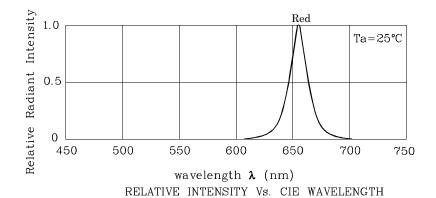
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (V <sub>F</sub> =9V) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XBMR53D	Red	GaAlAs	Red Diffused	120 40*	198 79*	655*	60°

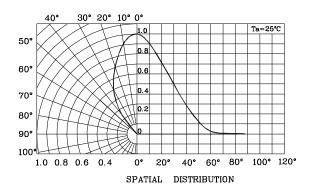
<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Oct 10,2016 XDSA2650 V9-X Layout: Maggie L.

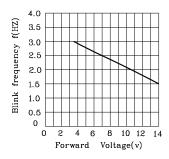


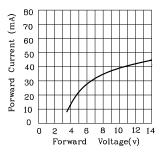




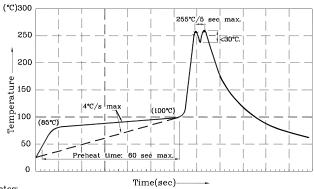


### **❖** Red





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.

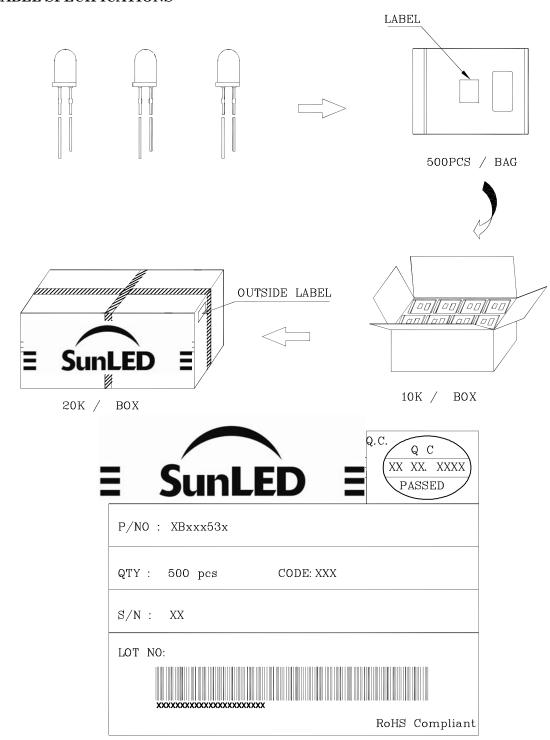
  5.SAC 305 solder alloy is recommended.

  6.No more than one wave soldering pass.



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# PACKING & LABEL SPECIFICATIONS



### TERMS OF USE

- 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.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$

Oct 10,2016

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