

# Part Number: 4383H1FL

## 10mm HOUSING FOR RED BLINKING LED LAMP WITH WIRE LEADS

### Features

- 10mm diameter big lamp with built-in blinking IC.
- Operation voltage from 3.5V to 14V.
- Blinking frequency from 3.0Hz to 1.5Hz..
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

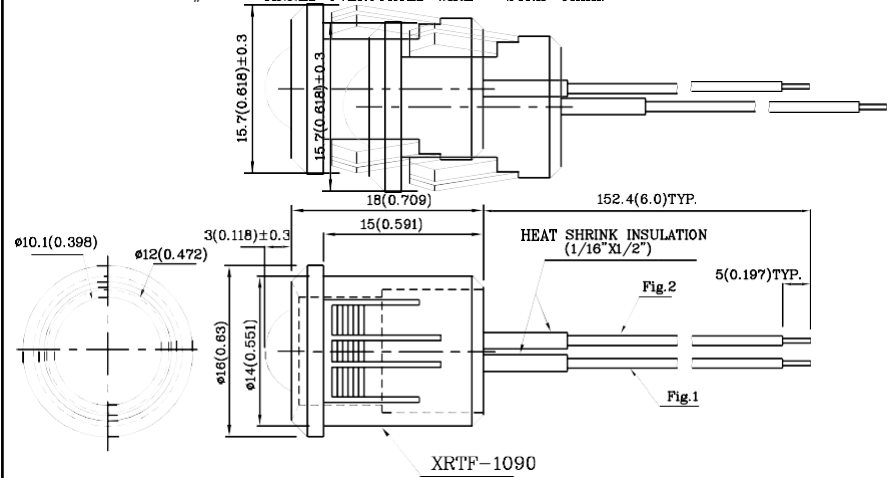


**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

### Package Schematics

Fig.

1. ANODE LEAD : RED INSULATION , 24 AWG ,  $\phi 1.45\text{mm}$  , UL#1007 , TINNED OVERCOATED WIRE , STRIP 5mm.
2. CATHODE LEAD : BLACK INSULATION , 24 AWG ,  $\phi 1.45\text{mm}$  , UL#1007 TINNED OVERCOATED WIRE STRIP 5mm.



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.

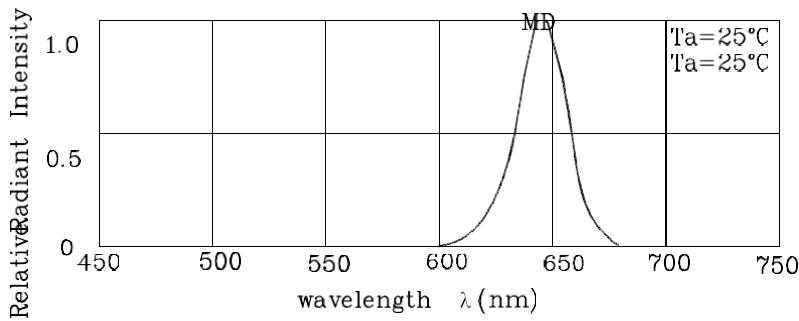
Absolute maximum ratings ( $T_A=25^\circ\text{C}$ )		MD (InGaAlP)	Unit	Operating Characteristics ( $T_A=25^\circ\text{C}$ )		MD (InGaAlP)	Unit
Reverse Voltage	$V_R$	0.5	V	Forward Current (Min.) ( $V_F=3.5\text{V}$ )	$I_F$	8	mA
Forward Voltage	$V_F$	14	V	Forward Current (Typ.) ( $V_F=5\text{V}$ )	$I_F$	22	mA
Power Dissipation	$P_T$	310	mW	Supply Current (Typ.) $V_F=3.5\text{V}$	$I_{SON}$	8	mA
Operating Temperature	$T_A$	-40 ~ +70	°C	Supply Current (Typ.) $V_F=14\text{V}$	$I_{SON}$	44	mA
Storage Temperature	$T_{stg}$	-40 ~ +85		Blink Frequency (Min.~Max.) $V_F=3.5\text{V}\sim 14\text{V}$	$f$	1.5~3	Hz
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds			Wavelength of Peak Emission CIE127-2007* (Typ.)	$\lambda_P$	645 *	nm
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds			Wavelength of Dominant Emission CIE127-2007* (Typ.)	$\lambda_D$	630*	nm
				Spectral Line Full Width At Half-Maximum (Typ.)	$\otimes\lambda$	27	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ( $V=9\text{V}$ ) mcd		Wavelength CIE127-2007* nm $\lambda_P$	Viewing Angle $2\theta$ 1/2
				min.	typ.		
4383H1FL	Red	InGaAlP	Red Diffused	300 80*	595 198*	645*	30°

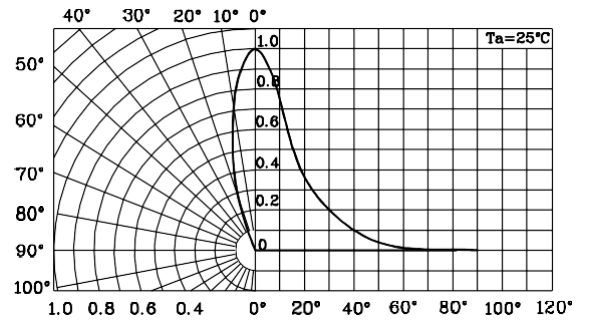
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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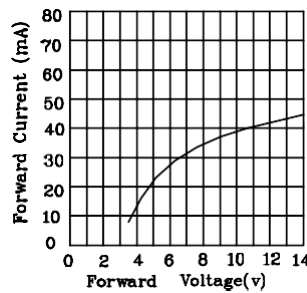
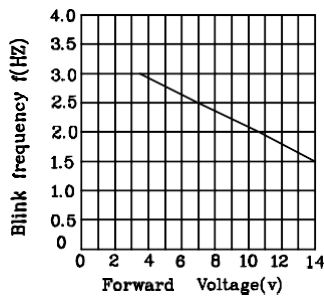


RELATIVE INTENSITY Vs. CIE WAVELENGTH

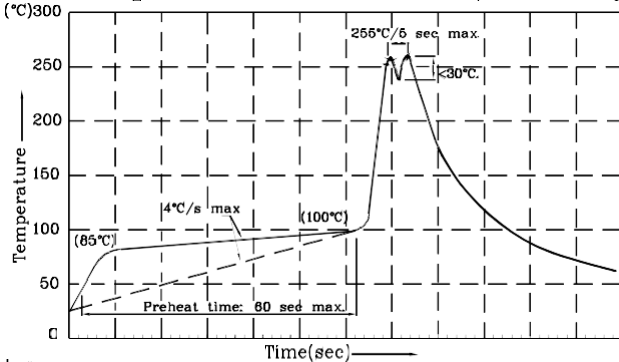


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**Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)**



**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: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.