

Part Number: 4383H4

10mm HOUSING & WHITE LED LAMP WITH WIRE LEADS

Features

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- Reliable & robust
- 12V internal resistor
- RoHS compliant

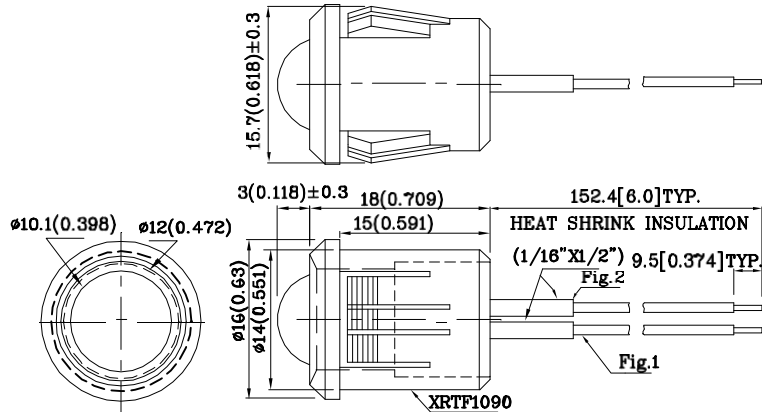


ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics

Fig.

1. ANODE LEAD : RED INSULATION 24 AWG ϕ 1.45mm
2. CATHODE LEAD : BLACK INSULATION 24 AWG ϕ 1.45mm ,UL#1007 9.5mm.
3. 12V INTERNAL RESISTOR



- 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 ($T_A=25^\circ\text{C}$)		CWD (InGaN)	Unit
Reverse Voltage	V_R	5	V
Forward Voltage	V_F	14	V
Power Dissipation	P_D	120	mW
Operating Temperature	T_A	-40 ~ +70	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +85	
Electrostatic Discharge Threshold (HBM)		250	V
Lead Solder Temperature [2mm Below Package]		260 $^\circ\text{C}$ For 3 Seconds	
Lead Solder Temperature [5mm Below Package]		260 $^\circ\text{C}$ For 5 Seconds	

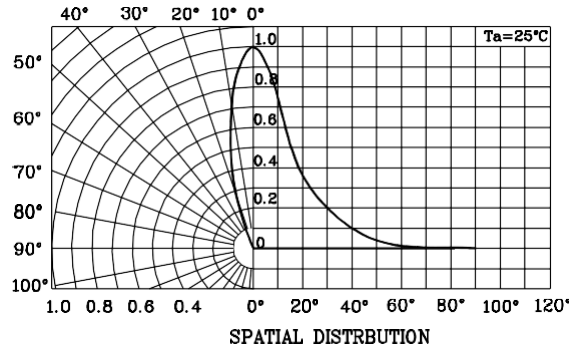
Operating Characteristics ($T_A=25^\circ\text{C}$)		CWD (InGaN)	Unit
Forward Current (Typ.) ($V_F=12\text{V}$)	I_F	7.5	mA
Forward Current (Max.) ($V_F=12\text{V}$)	I_F	10	mA
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	50	μA
Chromaticity Coordinates (Typ.)	x	0.31	
	y	0.31	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ($V_F=12\text{V}$) mcd	Viewing Angle 2 θ 1/2
				min.	typ.
4383H4	White	InGaN	White Diffused	400*	895*
					30 $^\circ$

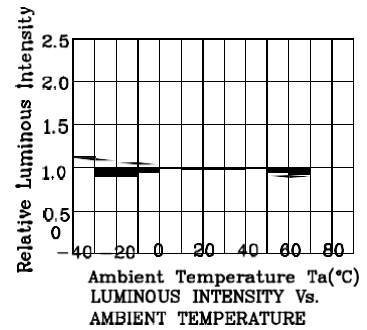
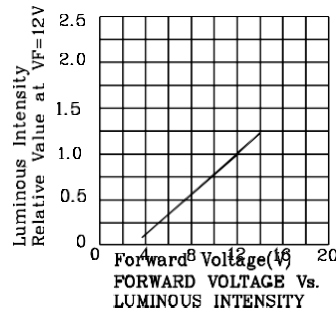
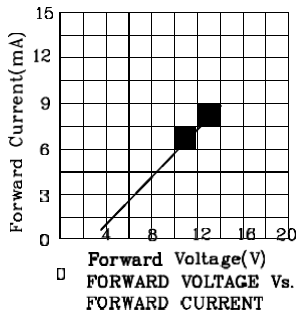
*Luminous intensity value is in accordance with CIE127-2007 standards.

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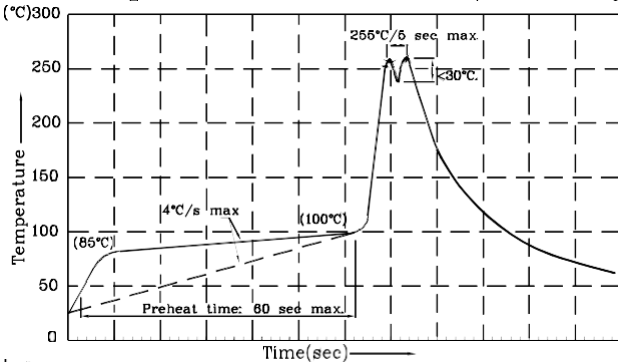
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❖ CWD



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



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/luminous flux or chromaticity), the typical accuracy of the sorting process is as follows:

1. Measurement tolerance of the chromaticity coordinates is ± 0.02 .
2. Luminous Intensity/ Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1V$

Note: Accuracy may depend on the sorting parameters.

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.