

Part Number: 4383H7

10mm HOUSING & YELLOW 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

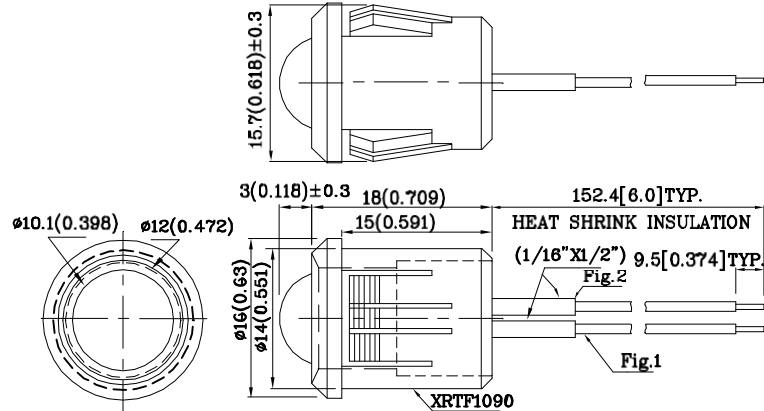


ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics

Fig.

- 1. ANODE LEAD : RED INSULATION 24 AWG ϕ 1.45mm UL#1007 CUT 160mm LONG, TINNED OVERCOATED WIRE , STRIP 9.5mm.**
- 2. CATHODE LEAD : BLACK INSULATION , 24 AWG , ϕ 1.45mm ,UL#1007 CUT 160mm LONG TINNED OVERCOATED WIRE STRIP 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 ($T_A=25^\circ\text{C}$) | | MY (AlGaInP) | 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 | °C |
| Storage Temperature | T_{stg} | -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 | | |

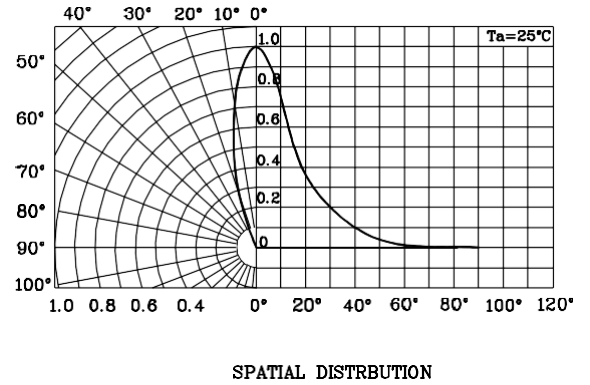
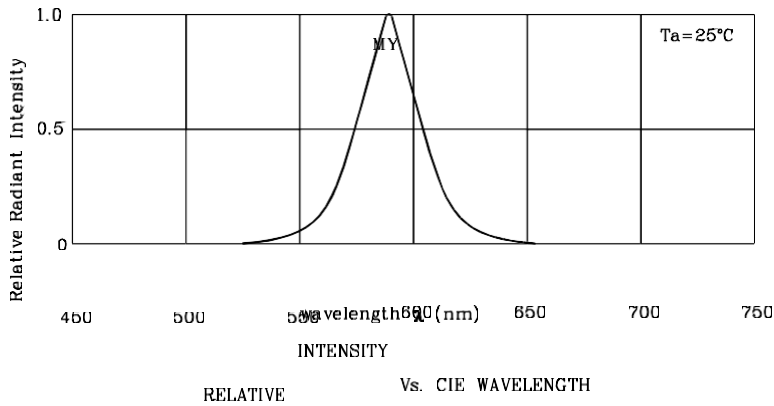
| Operating Characteristics ($T_A=25^\circ\text{C}$) | | MY (AlGaInP) | Unit |
|---|-----------------|-----------------|---------------|
| Forward Current (Typ.) ($V_F=12\text{V}$) | I_F | 8.5 | mA |
| Forward Current (Max.) ($V_F=12\text{V}$) | I_F | 11.5 | mA |
| Reverse Current (Max.) ($V_R=5\text{V}$) | I_R | 10 | μA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) ($V_F=12\text{V}$) | λ_P | 590* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) ($V_F=12\text{V}$) | λ_D | 590* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($V_F=12\text{V}$) | $\Delta\lambda$ | 28 | nm |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity CIE127-2007* ($V_F=12\text{V}$) mcd | | Wavelength CIE127-2007* nm λ_P | Viewing Angle 2 θ 1/2 |
|-------------|----------------|----------------------|-----------------|---|------|---|---------------------------------|
| | | | | min. | typ. | | |
| 4383H7 | Yellow | AlGaInP | Yellow Diffused | 30* | 69* | 590* | 30° |

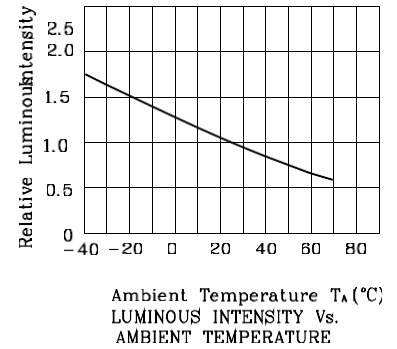
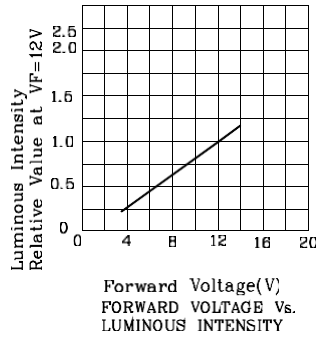
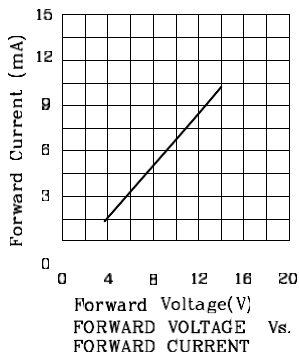
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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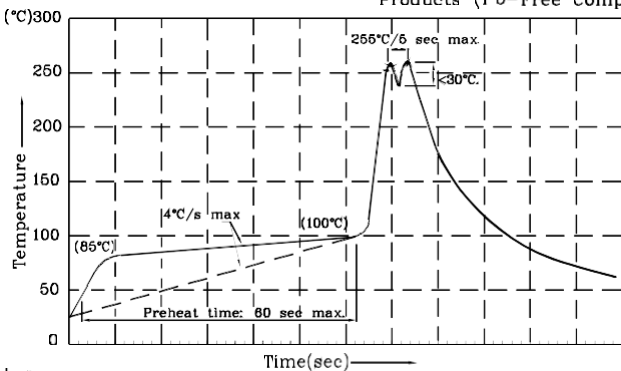
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❖ MY



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 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%

Note: Accuracy may depend on the sorting parameters.