

Part Number: 4383H5

10mm HOUSING & GREEN 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

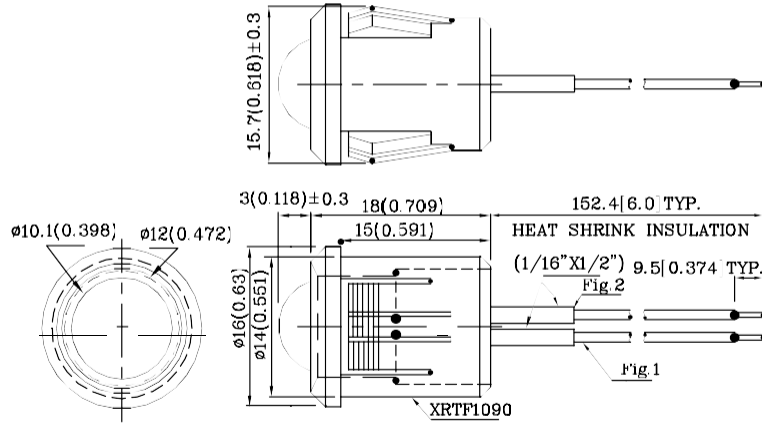


ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics

Fig.

1. ANODE LEAD : RED INSULATION , 24 AWG , UL#1007 , CUT 160mm LONG, TINNED OVERCOATED WIRE , STRIP 9.5mm.
2. CATHODE LEAD : BLACK INSULATION , 24 AWG , 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 ±0.25(0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

| Absolute Maximum Ratings (T _A =25°C) | | Green (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 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |
| Electrostatic Discharge Threshold (HBM) | | 1000 | V |
| Lead Solder Temperature [2mm Below Package Base] | | 260°C For 3 Seconds | |
| Lead Solder Temperature [5mm Below Package Base] | | 260°C For 5 Seconds | |

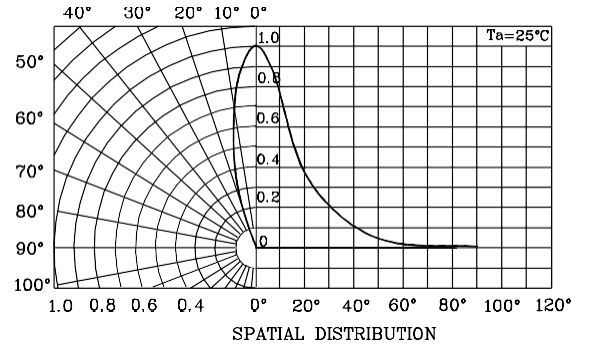
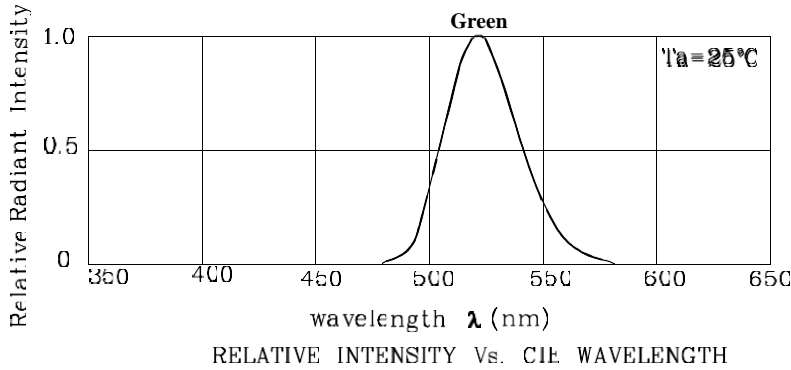
| Operating Characteristics (T _A =25°C) | | Green (InGaN) | Unit |
|--|----------------|------------------|------|
| Forward Current (Typ.) (V _F =12V) | I _F | 7.5 | mA |
| Forward Current (Max.) (V _F =12V) | I _F | 10 | mA |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) (V _F =12V) | λ _P | *520 | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) (V _F =12V) | λ _D | *530 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (V _F =12V) | Δλ | 35 | nm |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity CIE127-2007* (V _F =12V) mcd | | Wavelength CIE127-2007* nm λ _P | Viewing Angle 2θ 1/2 |
|-------------|----------------|----------------------|----------------|---|------|---|-------------------------|
| | | | | min. | typ. | | |
| 4383H5 | Green | InGaN | Green Diffused | *80 | *198 | *520 | 30° |

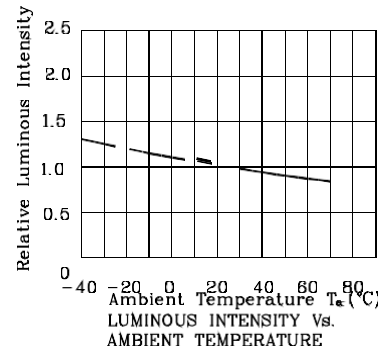
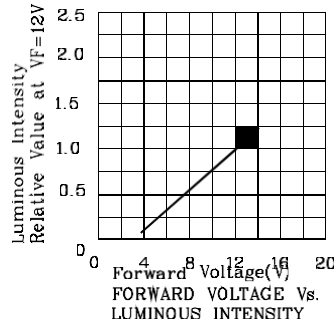
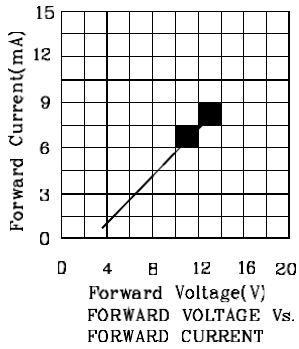
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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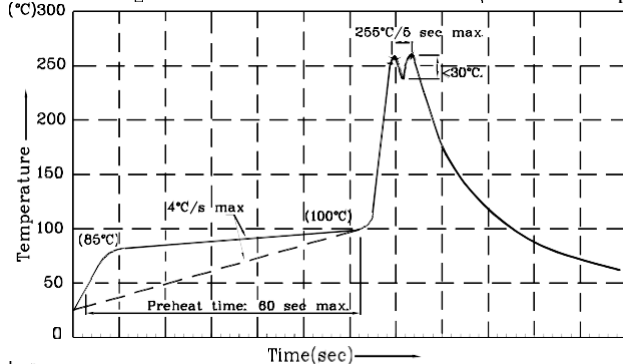
10mm HOUSING & GREEN LED LAMP WITH WIRE LEADS



• Green



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



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.

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.