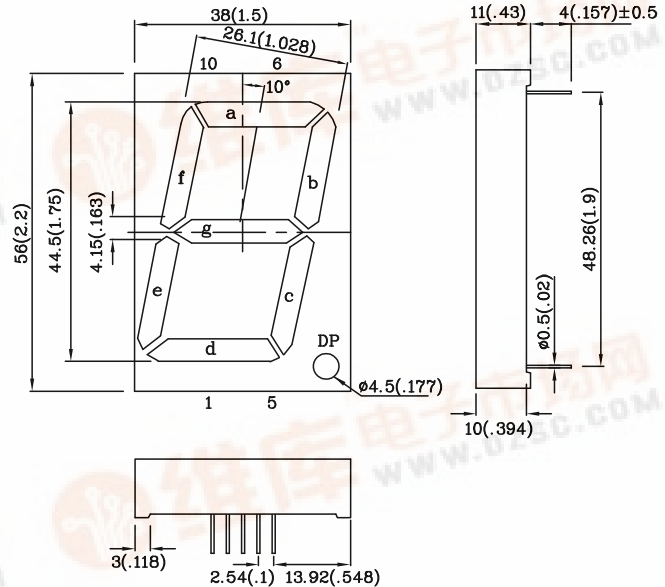
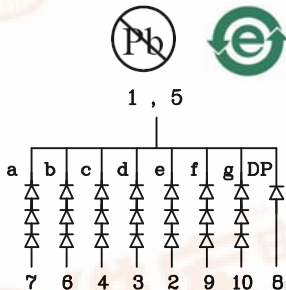


## Features

- 1.75 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.



## 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<br>(TA=25°C)                                                 |                        | UR<br>(GaAsP/<br>GaP) | Unit |
|---------------------------------------------------------------------------------------|------------------------|-----------------------|------|
| Reverse Voltage<br>Per Segment Or (Dp)                                                | VR                     | 15(5)                 | V    |
| Forward Current<br>Per Segment Or (Dp)                                                | IF                     | 30                    | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width<br>Per Segment Or (Dp) | iFS                    | 160                   | mA   |
| Power Dissipation<br>Per Segment Or (Dp)                                              | PT                     | 225(75)               | mW   |
| Operating Temperature                                                                 | TA                     | -40 ~ +85             | °C   |
| Storage Temperature                                                                   | Tstg                   | -40 ~ +85             |      |
| Lead Solder Temperature<br>[2mm Below Package Base]                                   | 260°C For 3 –5 Seconds |                       |      |

| Operating Characteristics<br>(TA=25°C)                                       |                | UR<br>(GaAsP/<br>GaP) | Unit |
|------------------------------------------------------------------------------|----------------|-----------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)<br>Per Segment Or (Dp)      | V <sub>F</sub> | 5.7(1.9)              | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)<br>Per Segment Or (Dp)      | V <sub>F</sub> | 7.5(2.5)              | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =15V(5V))<br>Per Segment Or (Dp)   | I <sub>R</sub> | 10                    | uA   |
| Wavelength Of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λ <sub>P</sub> | 627                   | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λ <sub>D</sub> | 625                   | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | Δλ             | 45                    | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | C              | 15                    | pF   |

Part  
Number

Emitting  
Color

Emitting  
Material

Luminous  
Intensity  
(I<sub>F</sub>=10mA)  
ucd

Wavelength  
nm  
λ<sub>P</sub>

Description

min. typ.

DUR46C

Red

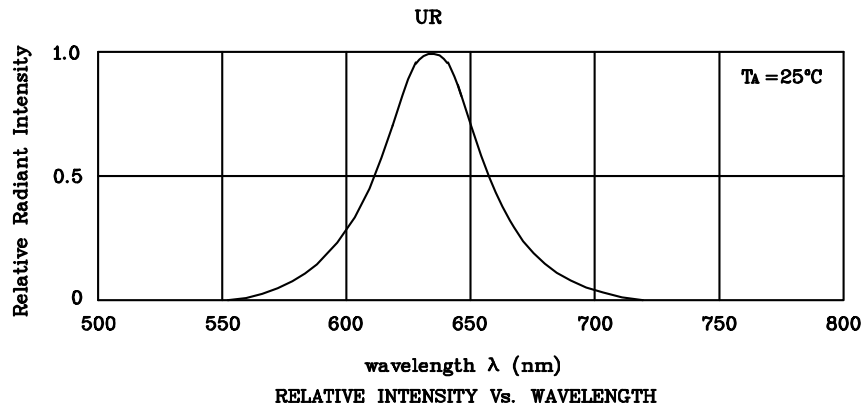
GaAsP/GaP

4700

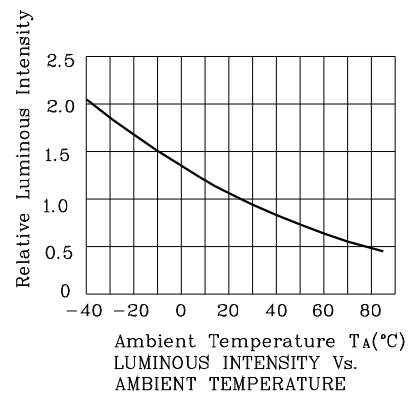
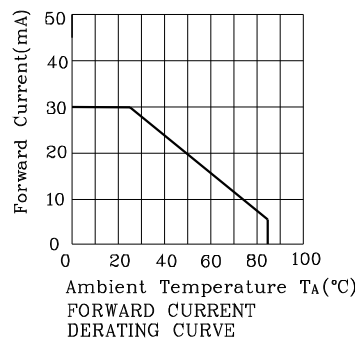
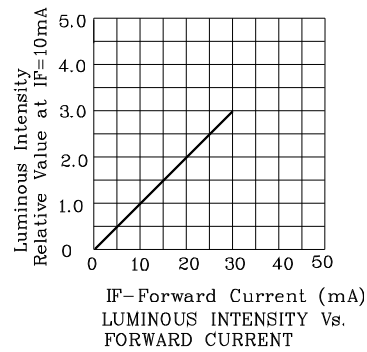
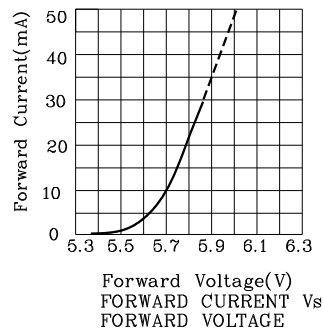
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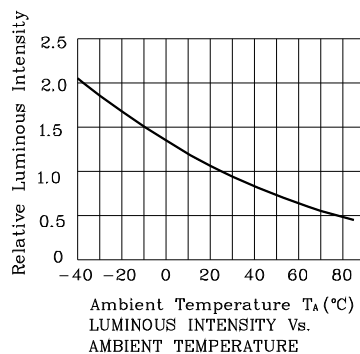
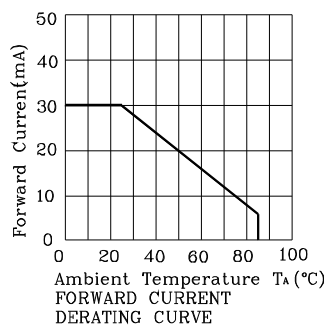
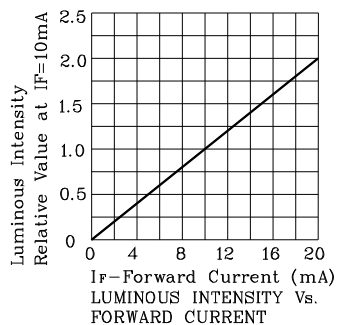
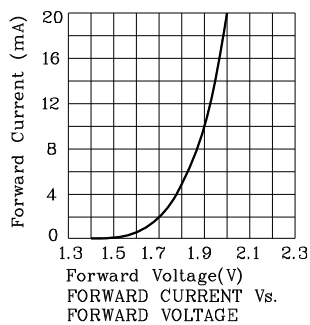
627

Common Cathode, Rt. Hand Decimal

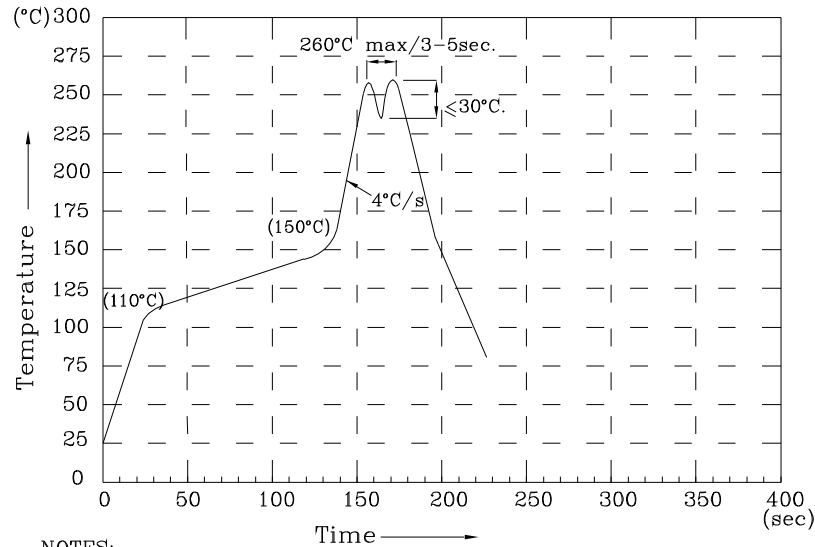


❖ **UR**





### Wave Soldering Profile For Lead-free Through-hole LED.



#### NOTES:

1. Recommend the wave temperature  $245^{\circ}\text{C} \sim 260^{\circ}\text{C}$ . The maximum soldering temperature should be less than  $260^{\circ}\text{C}$ .
2. Do not apply stress on epoxy resins when temperature is over  $85^{\circ}\text{C}$ .
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. No more than once.

#### Remarks:

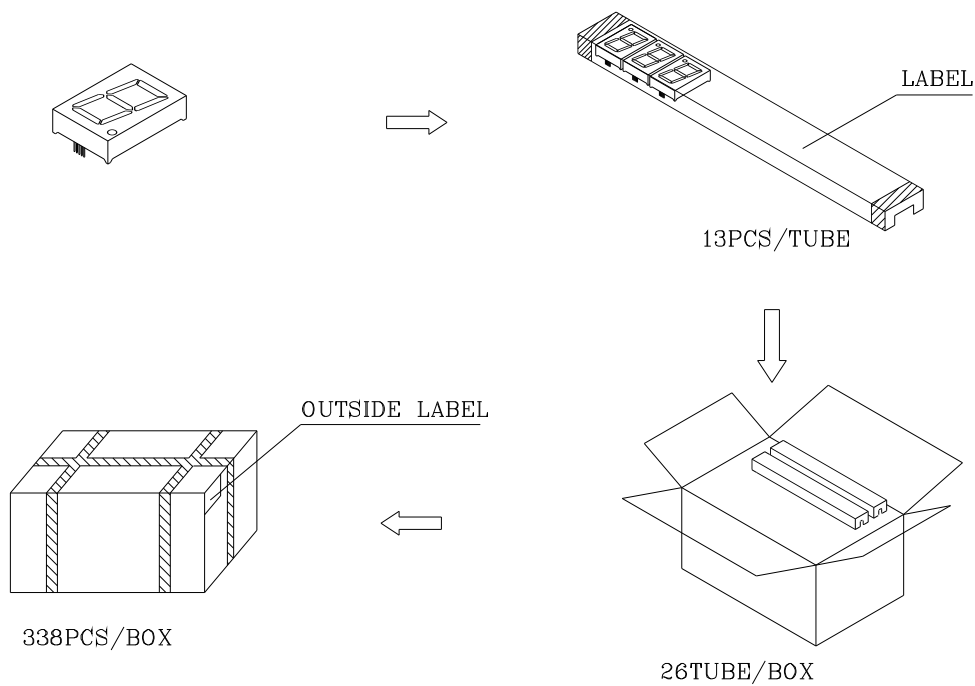
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous intensity / luminous flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

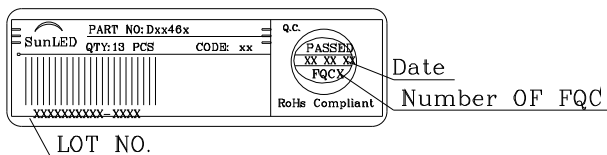
Note: Accuracy may depend on the sorting parameters.

## PACKING & LABEL SPECIFICATIONS

## DUR46C



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

