SunLED
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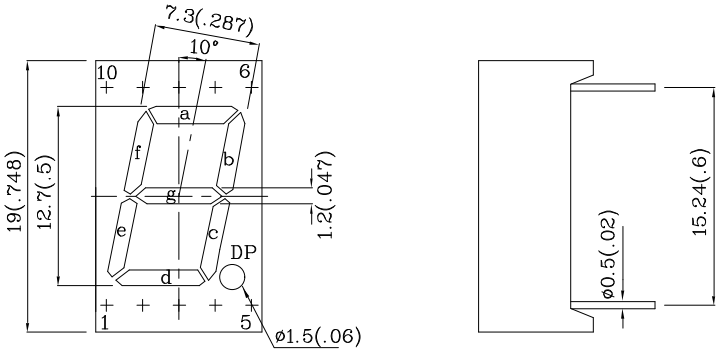
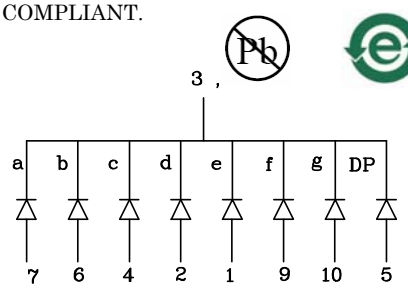
**Part Number:** **DUR12C**

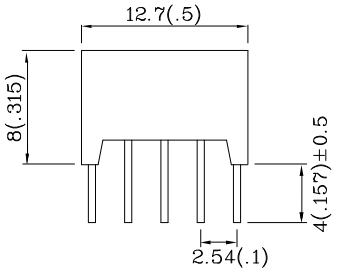
12.7mm (0.5") SINGLE DIGIT NUMERIC DISPLAY

## Features

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



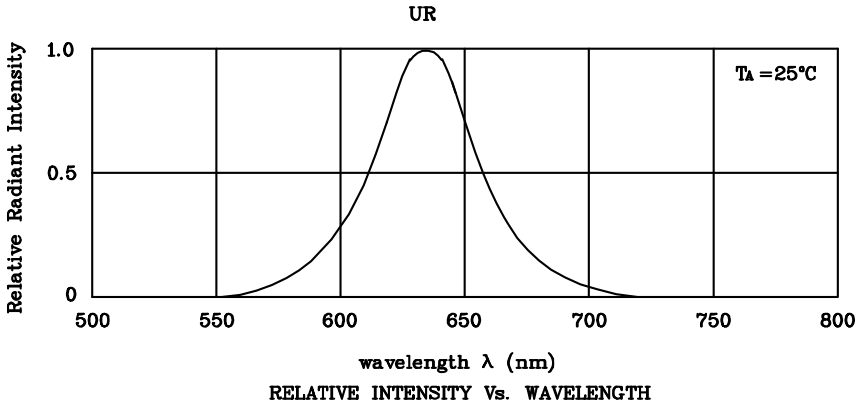

Notes:

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 (TA=25°C)** | | **UR (GaAsP/ GaP)** | **Unit** |
|---|---|---|---|
| Reverse Voltage | VR | 5 | V |
| Forward Current | IF | 30 | mA |
| Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width | iFS | 160 | mA |
| Power Dissipation | PT | 75 | mW |
| Operating Temperature | TA | -40 ~ +85 | °C |
| Storage Temperature | Tstg | -40 ~ +85 | |
| Lead Solder Temperature [2mm below package base] | 260°C For 3~ 5 Seconds | | |

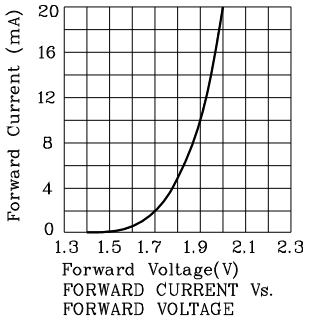
| **Operating Characteristics (TA=25°C)** | | **UR (GaAsP/ GaP)** | **Unit** |
|---|---|---|---|
| Forward Voltage (Typ.) (IF=10mA) | VF | 1.9 | V |
| Forward Voltage (Max.) (IF=10mA) | VF | 2.5 | V |
| Reverse Current (Max.) (VR=5V) | IR | 10 | uA |
| Wavelength Of Peak Emission (Typ.) (IF=10mA) | λ P | 627 | nm |
| Wavelength Of Dominant Emission (Typ.) (IF=10mA) | λ D | 625 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA) | Δλ | 45 | nm |
| Capacitance (Typ.) (VF=0V, f=1MHz) | C | 15 | pF |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (IF=10mA) ucd | | Wavelength nm λ P | Description |
|---|---|---|---|---|---|---|
| | | | min. | typ. | | |
| DUR12C | Red | GaAsP/GaP | 1900 | 7990 | 627 | Common Cathode,Rt.Hand Decimal |

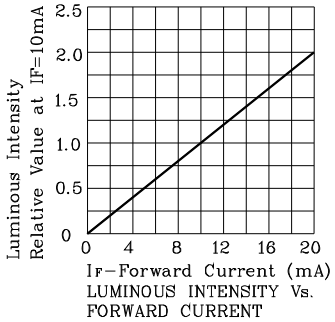



RELATIVE INTENSITY Vs. WAVELENGTH

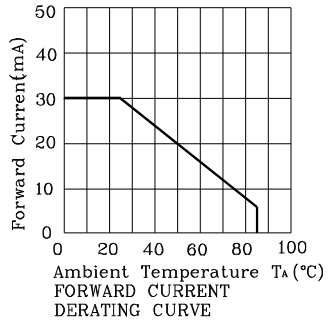
## ❖ UR



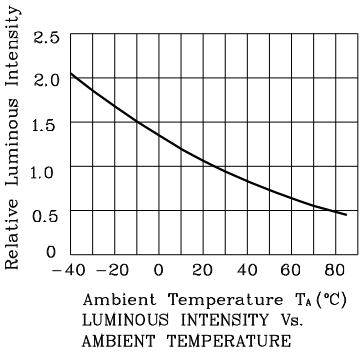

FORWARD CURRENT Vs.
FORWARD VOLTAGE




LUMINOUS INTENSITY Vs.
FORWARD CURRENT

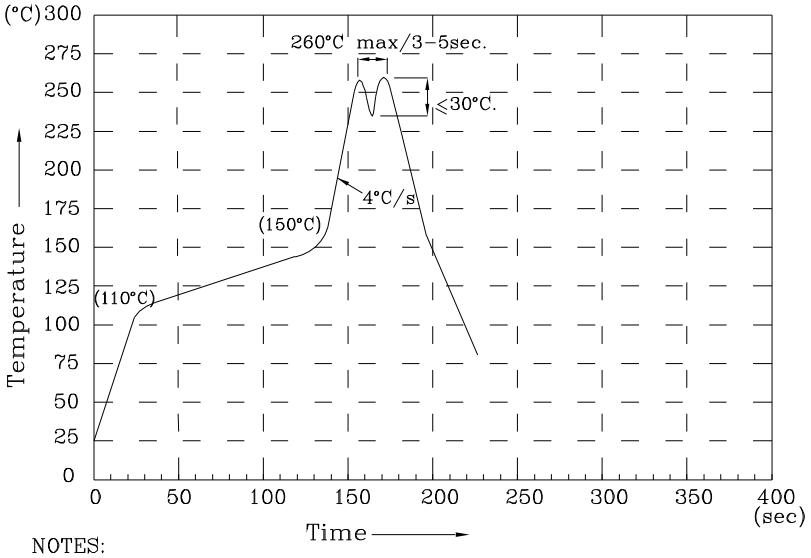



FORWARD CURRENT
DERATING CURVE




LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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




NOTES:

1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
2.Do not apply stress on epoxy resins when temperature is over 85 degree°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, or wavelength), the typical accuracy of the sorting process is as follows:

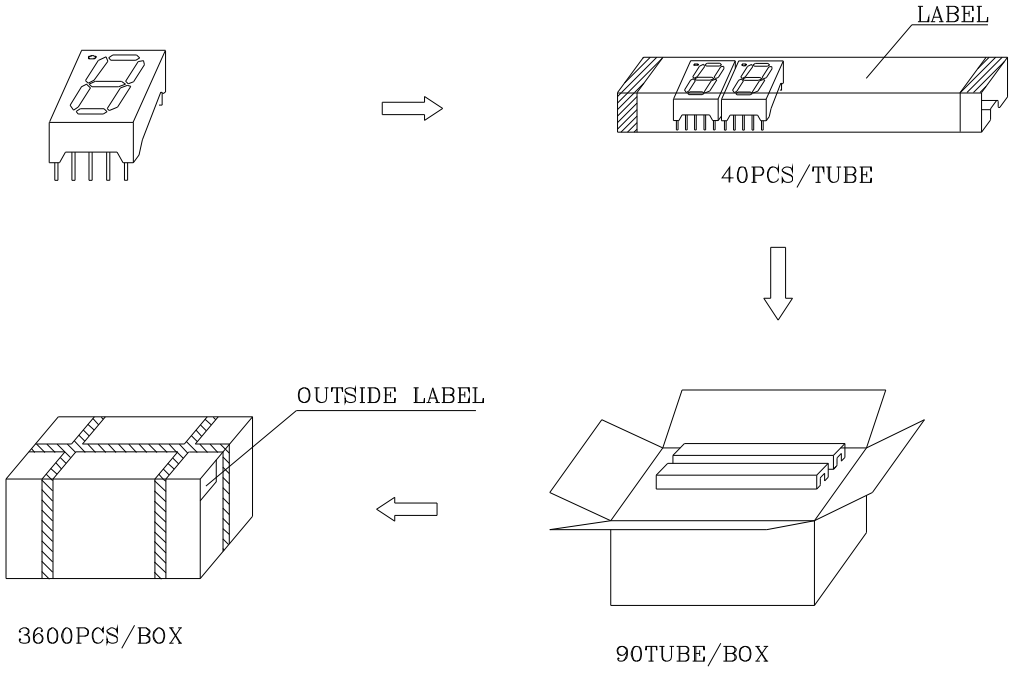
1. Wavelength: +/-1nm

2. Luminous intensity / luminous flux: +/-15%

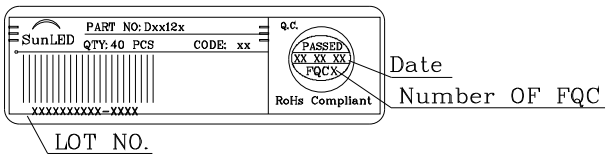
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

## PACKING & LABEL SPECIFICATIONS DUR12C




Inside LABEL Paste On The IC-tube




Outside LABEL Paste On The Box