

Part Number: **DMR07C**

7.62mm (0.3") SINGLE DIGIT NUMERIC DISPLAY

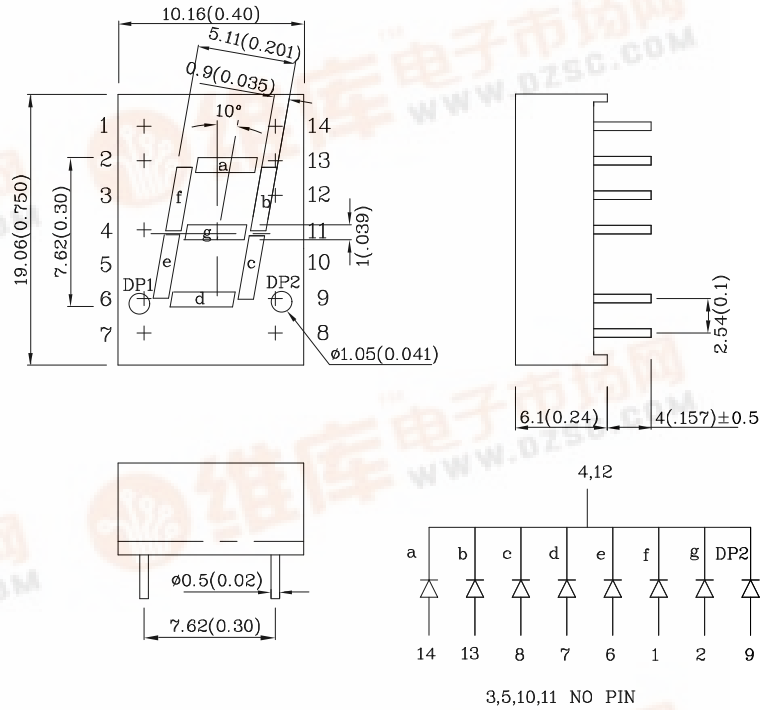
## Features

- 0.3 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  $\pm 0.25(0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

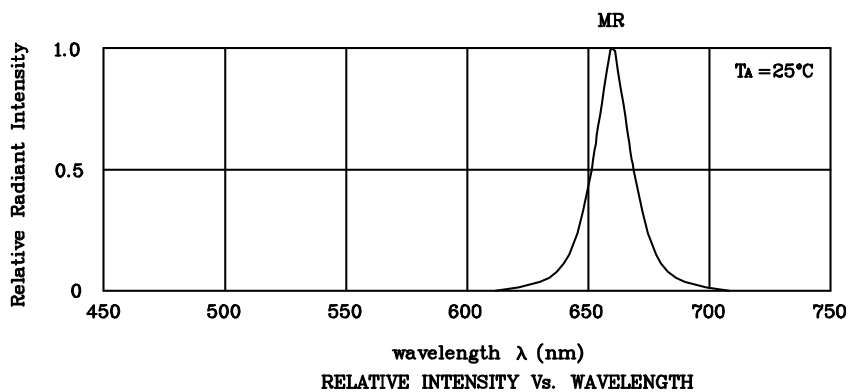


| Absolute Maximum Ratings<br>(TA=25°C)                          |                        | MR<br>(GaAlAs) | Unit |
|----------------------------------------------------------------|------------------------|----------------|------|
| Reverse Voltage                                                | VR                     | 5              | V    |
| Forward Current                                                | IF                     | 30             | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS                    | 155            | mA   |
| Power Dissipation                                              | PT                     | 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 |                |      |

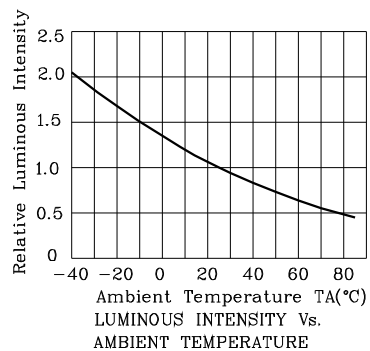
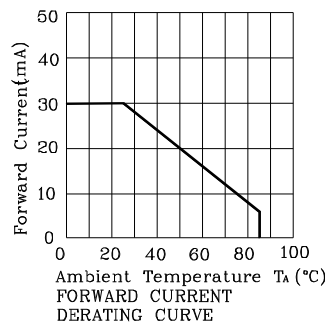
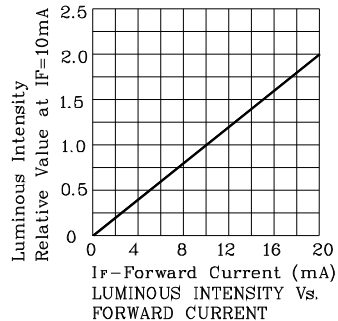
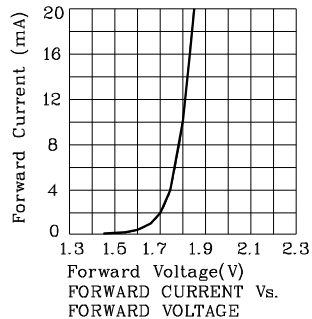
| Operating Characteristics<br>(TA=25°C)                                       |                | MR<br>(GaAlAs) | Unit |
|------------------------------------------------------------------------------|----------------|----------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 1.8            | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 2.5            | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                               | I <sub>R</sub> | 10             | uA   |
| Wavelength of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λ <sub>P</sub> | 660            | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λ <sub>D</sub> | 640            | nm   |
| Spectral Line Full Width At<br>Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | Δλ             | 20             | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | C              | 45             | pF   |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (IF=10mA)<br>ucd |       | Wavelength<br>nm<br>IP | Description                      |
|-------------|----------------|-------------------|-------------------------------------|-------|------------------------|----------------------------------|
|             |                |                   | min.                                | typ.  |                        |                                  |
| DMR07C      | Red            | GaAlAs            | 8000                                | 25990 | 660                    | Common Cathode, Rt. Hand Decimal |

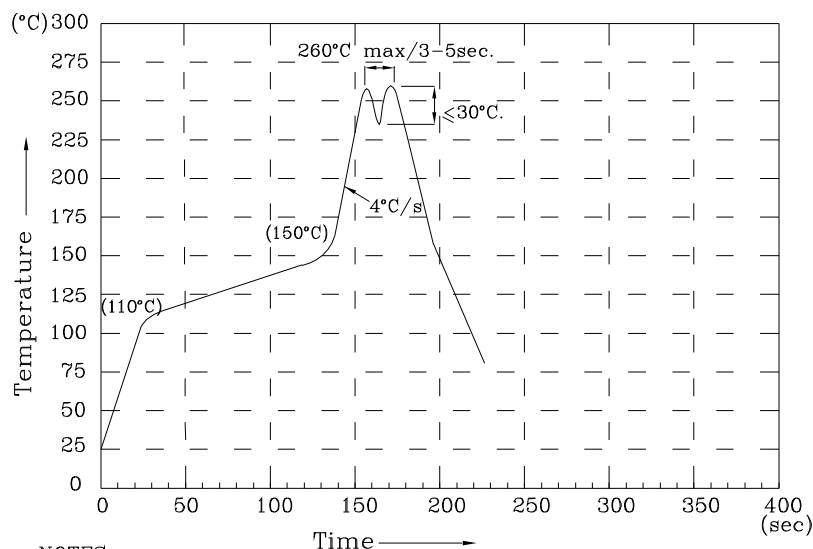




❖ **MR**



### 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:

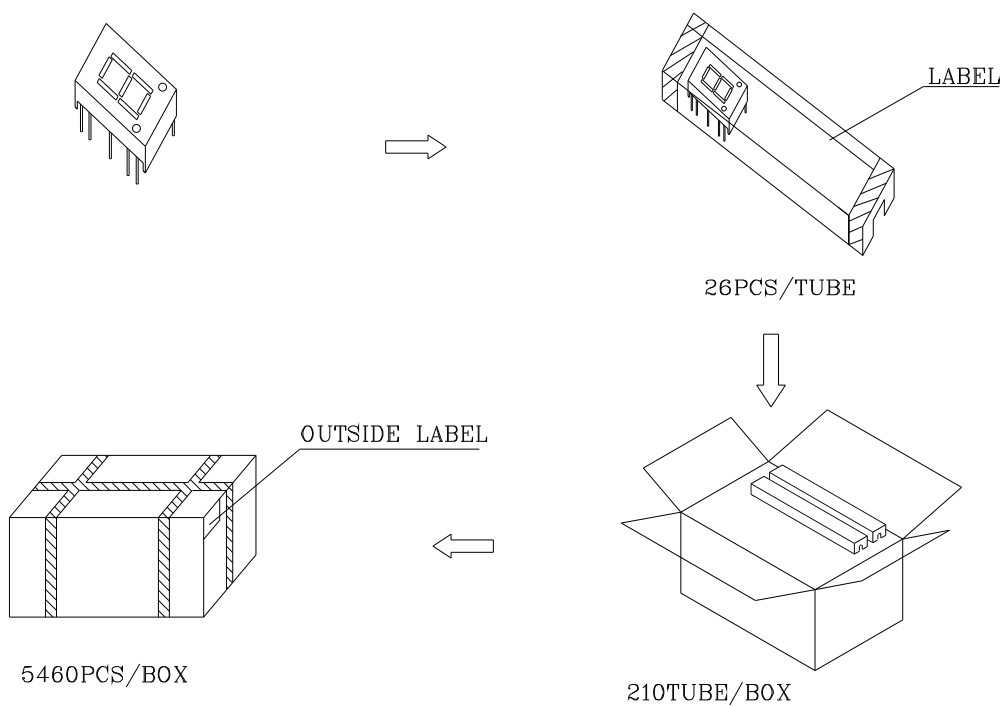
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

## DMR07C



Inside LABEL Paste On The IC-tube

|                |                 |               |
|----------------|-----------------|---------------|
| SunLED         | PART NO: Dxx07x | QC            |
| QTY: 26 PCS    | CODE: xx        | PASSED        |
| XXXXXXXX-XXXX  |                 | XX XX XX      |
| LOT NO.        |                 | QCX           |
| RoHS Compliant |                 | Date          |
|                |                 | Number OF FQC |

Outside LABEL Paste On The Box

|                                                                                     |      |      |          |
|-------------------------------------------------------------------------------------|------|------|----------|
| BOX Number                                                                          | XXXX | XXXX | BIN CODE |
| Dxx07x                                                                              | 5460 | XX   |          |
| Number OF QA                                                                        |      |      |          |
| Date                                                                                |      |      |          |
|  |      |      |          |