

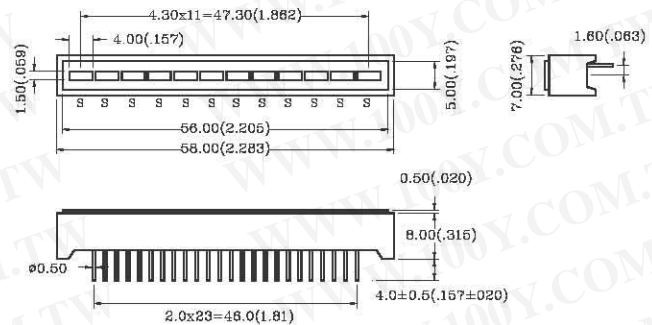
● **Features :**

1. Emitting area : 4.0×1.5×12 (mm)
2. Low power requirement.
3. Excellent characters appearance.
4. Solid state reliability.
5. Categorized for luminous intensity.
6. Universal pin out.

● **Description :**

1. The BA-12G3UD is 12 bar graph array display.
2. This product use green chips
3. This product have a black face and white segments.
4. This product doesn't contain restricted substance, comply RoHS standard.

● **Package Dimensions :**

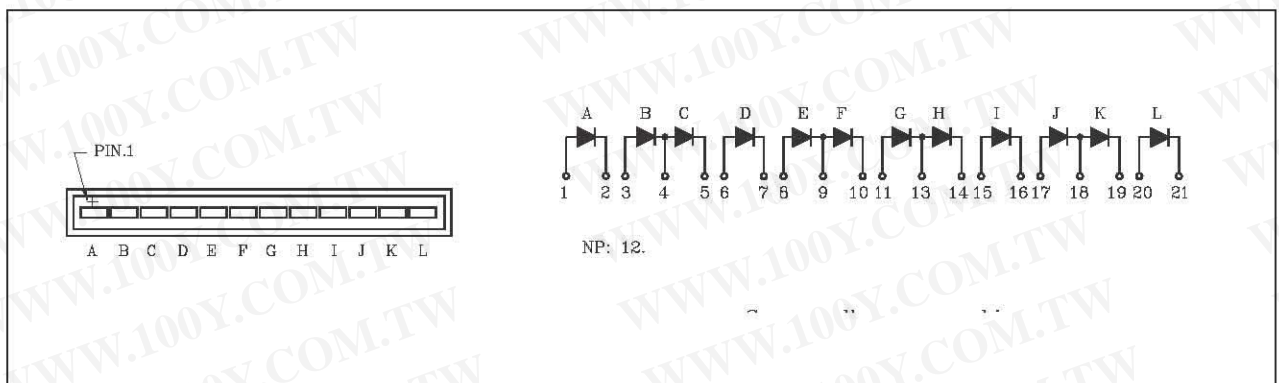


Notes:

1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(.01")unless otherwise specified.
3. Specifications are subject to change without notice.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
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● **Internal Circuit Diagram :**



● Absolute Maximum Ratings(Ta=25°C)

| Parameter | Symbol | Rating | Unit |
|--|--------------------------------------|---------------------|------|
| Power Dissipation Per Segment | Pd | 80 | mW |
| Forward Current Per Segment | I _F | 30 | mA |
| Peak Forward Current Per Segment | I _{FP} (Duty 1/10, 1KHZ) | 150 | mA |
| Reverse Voltage Per Segment | V _R | 5 | V |
| Operating Temperature | Topr | -40°C~85°C | - |
| Storage Temperature | Tstg | -40°C~85°C | - |
| Soldering Temperature (1/16" From Body) | Tsol | 260°C For 5 Seconds | - |

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● Electrical And Optical Characteristics(Ta=25°C)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|--------------------------------|----------------|----------------------|------|------|------|------|
| Forward Voltage Per Segment | V _f | I _F =10mA | - | 2.1 | 2.5 | V |
| Luminous Intensity Per Segment | I _v | I _F =10mA | - | 4.5 | - | mcd |
| Reverse Current Per Segment | I _R | V _R =5V | - | - | 100 | μA |
| Peak Wave Length | λ _p | I _F =20mA | - | 568 | - | nm |
| Dominant Wave Length | λ _d | I _F =20mA | 567 | - | 572 | nm |
| Spectral Line Half-width | Δλ | I _F =20mA | - | 30 | - | nm |

● Typical Electro-Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Relative Radiant Intensity VS. Wavelength

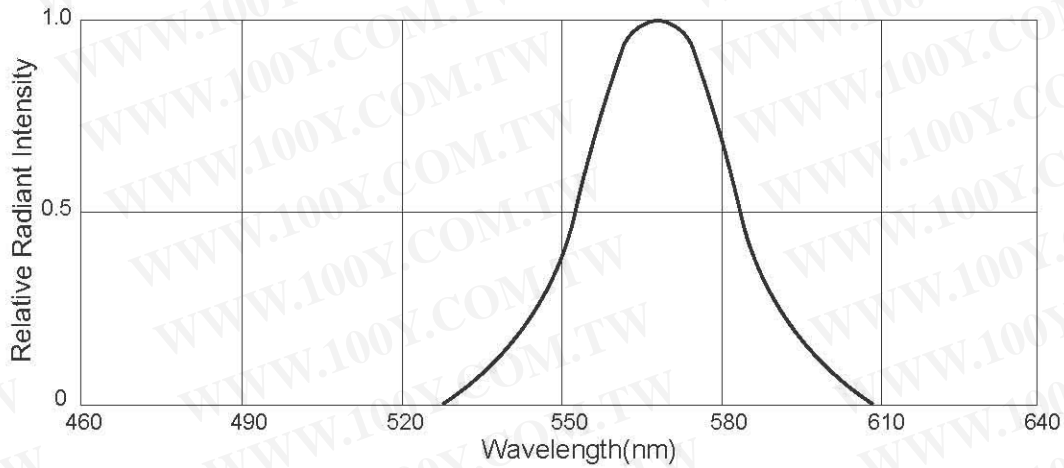


Fig.2 Forward Current VS. Forward Voltage

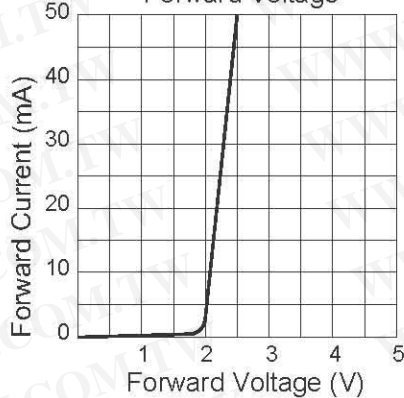


Fig.3 Relative Luminous Intensity VS. Ambient Temperature

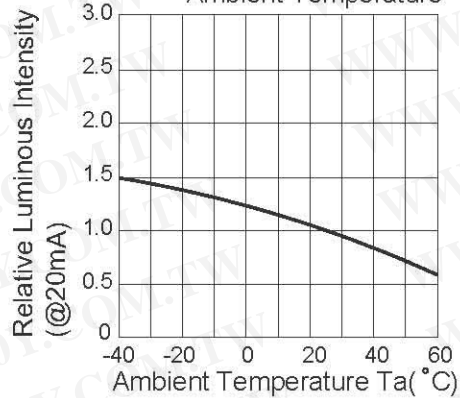


Fig.4 Relative Luminous Intensity VS. Forward Current

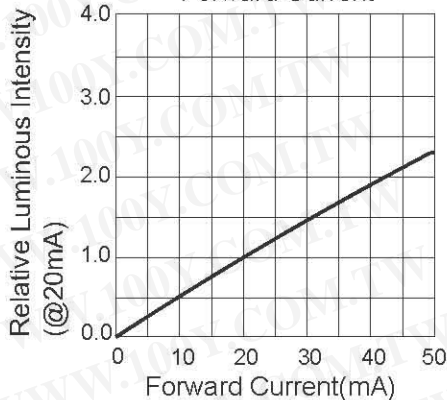
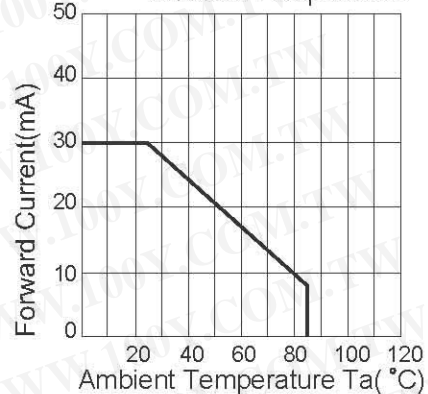


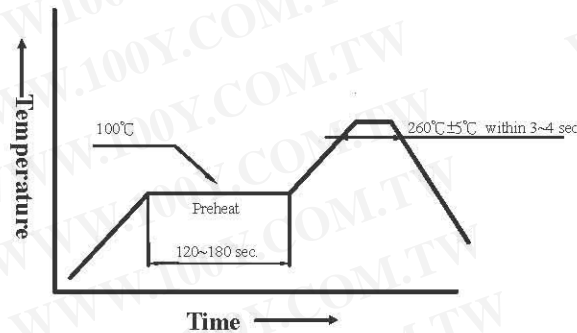
Fig.5 Forward Current Derating Curve VS. Ambient Temperature



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●DIP soldering (Wave Soldering)

Preheating : 100°C, within 120~180 sec.
Operation heating : 260°C±5°C within 3~4 sec.
Gradual Cooling (Avoid quenching).



●IRON soldering

350°C with 4~5 sec.