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DATA SHEET

PART NO. : B-1822G

REV : A / 1

CUSTOMER'S APPROVAL : _____

DCC : _____

DRAWING NO. : DS-17-16-0215G

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Page : 1

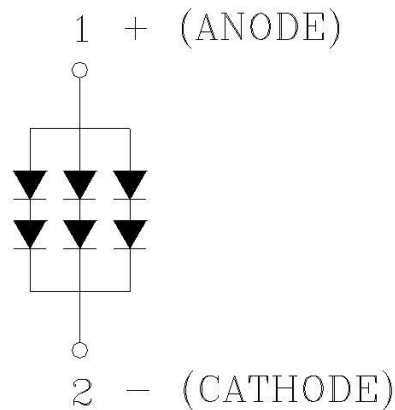
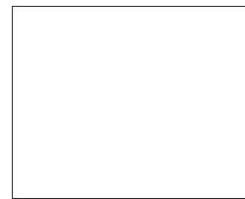
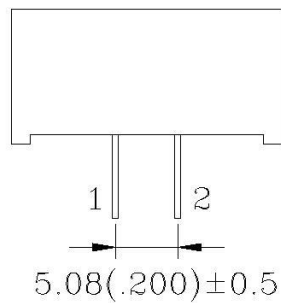
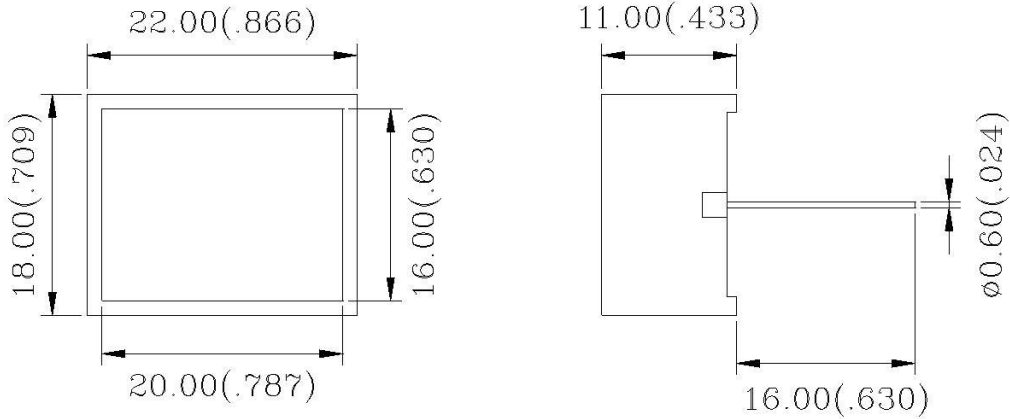


20.0mm x 16.0mm SQUARE LIGHT BAR

B-1822G

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PACKAGE DIMENSIONS



NOTES : 1. All dimensions are in millimeters. (inches)
2. Tolerance is $\pm 0.25(0.010)$ unless otherwise specified.



20.0mm x 16.0mm SQUARE LIGHT BAR

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FEATURES

- 20.0mm x 16.0mm SQUARE LIGHT BAR
- LOW POWER REQUIREMENT
- CAN BE USED WITH PANEL AND LEGEND MOUNT
- SUITABLE FOR MULTIPLEX OPERATION
- EASY MOUNTING ON P.C.B
- Pb FREE PRODUCTS

ROHS COMPLIANCE

GREEN SEGMENTS

Raw Material : GaAlInP/GaAs

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

| SYMBOL | PARAMETER | YELLOW GREEN | UNIT |
|---|------------------------------------|---------------|-------|
| PAD | Power Dissipation Per Bar | 420 | mW |
| VR | Reverse Voltage Per Bar | 10 | V |
| IAF | Continuous Forward Current Per Bar | 75 | mA |
| — | Derating Linear From 25°C Per Bar | 0.33 | mA/°C |
| Topr | Operating Temperature Range | -35°C to 85°C | |
| Tstg | Storage Temperature Range | -35°C to 85°C | |
| Solder Temperature 1/16 inch Below Seating Plane for 5 Seconds at 260°C | | | |

ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

| SYMBOL | PARAMETER | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------|----------------------------|----------------|------|------|------|------|
| VF | Forward Voltage , Per Bar | IF = 60mA | | 4.4 | 5.6 | V |
| IR | Reverse Current , Per Bar | VR = 10V | | | 100 | µA |
| λP | Peak Emission Wavelength | IF = 20mA | | 568 | | nm |
| λD | Dominant Wavelength | IF = 20mA | | 570 | | nm |
| Δλ | Spectral Line Half-Width | IF = 20mA | | 30 | | nm |
| IV | Luminous Intensity Per Bar | IF = 30mA | 4.0 | 10.0 | | mcd |

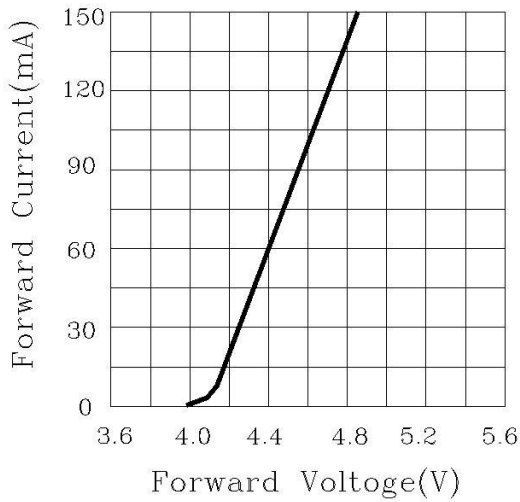


20.0mm x 16.0mm SQUARE LIGHT BAR

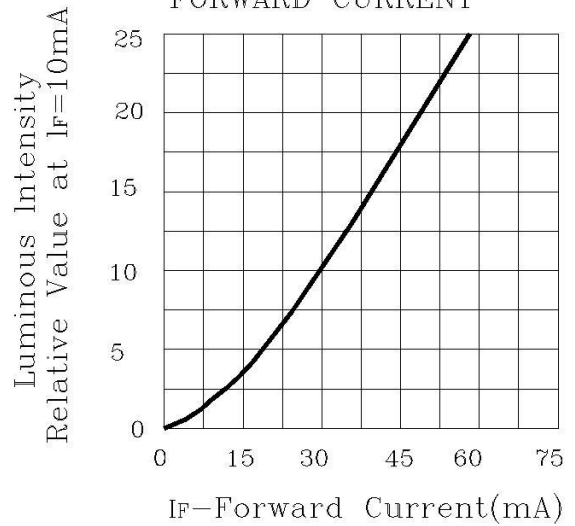
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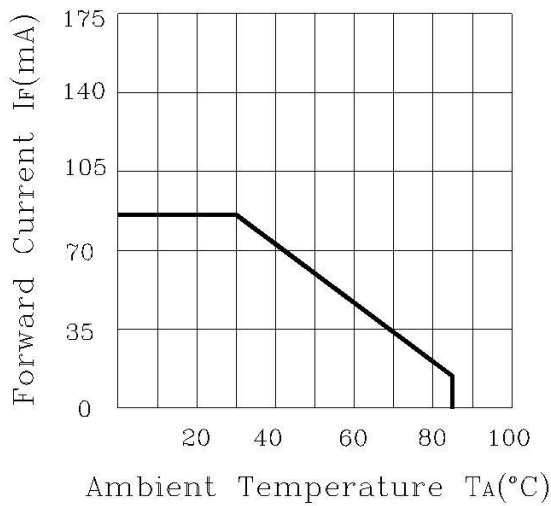
FORWARD CURRENT Vs. FORWARD VOLTAGE



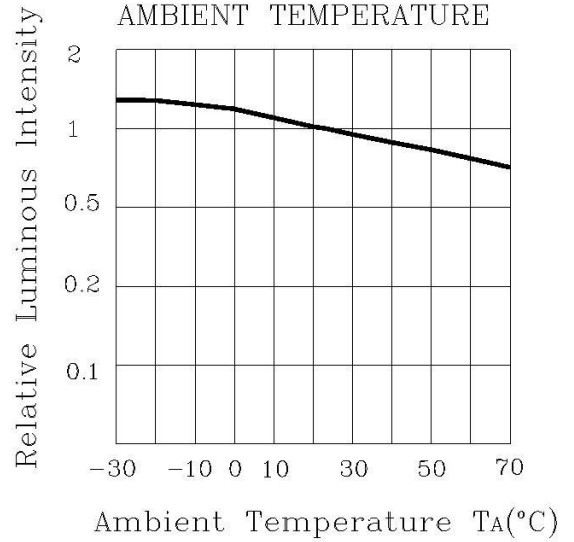
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE





20.0mm x 16.0mm SQUARE LIGHT BAR

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SOLDERING

| METHOD | SOLDERING CONDITIONS | REMARK |
|----------------|---|--|
| DIP SOLDERING | Bath temperature: 260 max Immersion time: within 5 sec | Solder no closer than 2mm from the base of the package Using soldering flux," RESIN FLUX" is recommended. |
| SOLDERING IRON | Soldering iron: 30W or smaller Temperature at tip of iron: 260 or lower Soldering time: within 5 sec. | During soldering, take care not to press the tip of iron against the PIN. (To prevent heat from being transferred directly to the PIN.) |

1) When soldering the PIN of Display in a jig that the package is fixed with a panel (See fig.1), be careful not to stress the PIN with iron tip. When soldering Display in a condition that the package is fixed with a panel, be careful not to cling and stress the surface of Display on the panel to avoid damaging the Display.

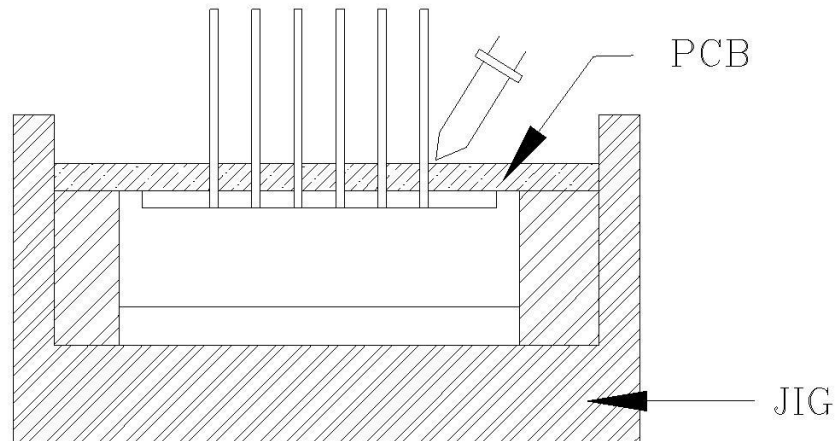


Fig.1

Regarding solution in the tinning oven for product-tinning, compound sub-solution made of tin & copper and silver is proposed with the temperature of Celsius 260. The proportion of the alloyed solution is tin 95.5: copper 3.5: silver 0.5 by percentage. The time of tinning is constantly 3 seconds.

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