



YETDA INDUSTRY LTD.

0.28" TRIPLE DIGIT WHITE LED DISPLAY

T-2831AW11

DESCRIPTION

- * 0.28" (7.0mm) Inch Digit Height.
- * White Emitting Color.
- * Black Face and White Segment Color.
- * Common Cathode.

ABSOLUT MAXIMUM RATINGS AT Ta=25°C

| Parameter | | UNIT |
|---|---|------|
| Power Dissipation Per Seg. & Dot | 40 | mW |
| Peak Forward Current Per Seg. & Dot | 120 | mA |
| Forward current Per Seg. & Dot (Static) | 30 | mA |
| Reverse Voltage Per Seg. & Dot | 5 | V |
| Operation Temperature Range | -25°C TO +80°C | °C |
| Storage Temperature Range | -25°C TO +100°C | °C |
| Lead Soldering Temperature | 260°C for 3 seconds 1.6mm(1/16 inch) from body | |

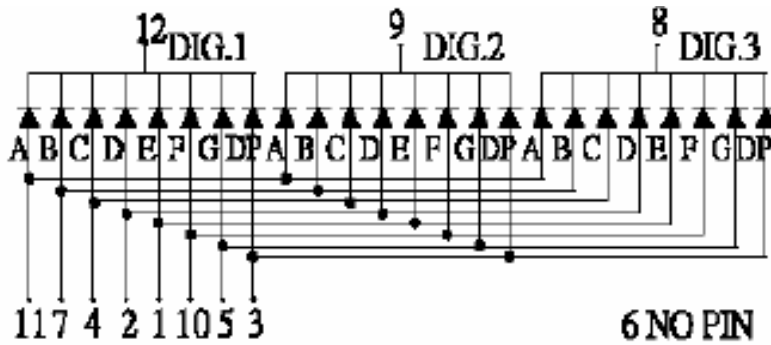
ELECTRICAL/OPTOTICAL CHARACTERISTIC AT Ta=25°C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | CONDITION |
|-----------------------------------|--------|------|-------|------|------|-----------|
| Average Luminous Intensity | Iv | 60 | 75 | | mcd | If=20mA |
| Chromaticity Coordinate | X | | 0.29 | | | If=20mA |
| Chromaticity Coordinate | y | | 0.30 | | | If=20mA |
| Forward Voltage Per Seg. | Vf | | 3.2 | 3.8 | V | If=20mA |
| Reverse Current Per Seg. | Ir | | | 10 | uA | Vr=5V |
| Luminous Intensity Matching Ratio | Iv-m | | 2 : 1 | | | If=20mA |

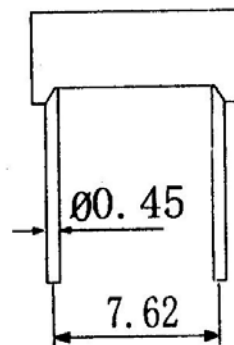
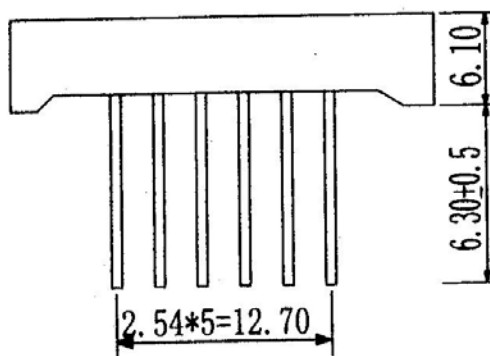
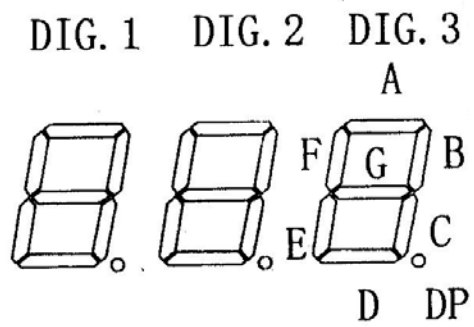
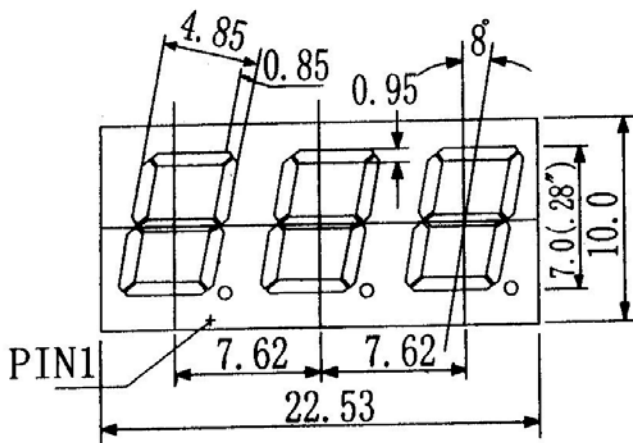


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P.C.B. Pin Connection



Reflector Dimensions



Unit:mm



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Typical Electro-Optical Characteristics Curve

Fig 1. Forward Current vs. Forward Voltage

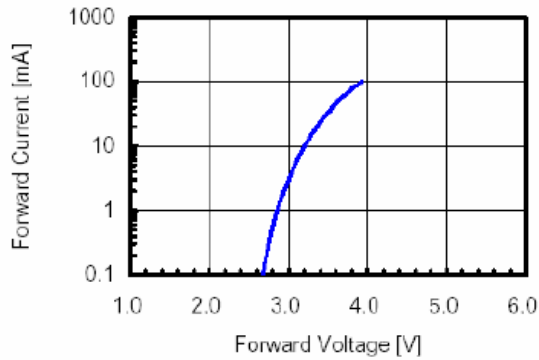


Fig 2. Relative Intensity vs. Forward Current

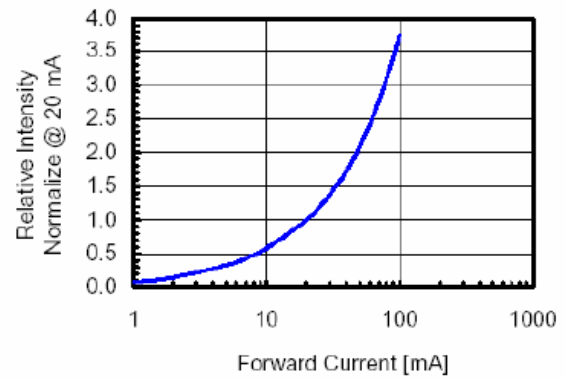


Fig 3. Forward Voltage vs. Temperature

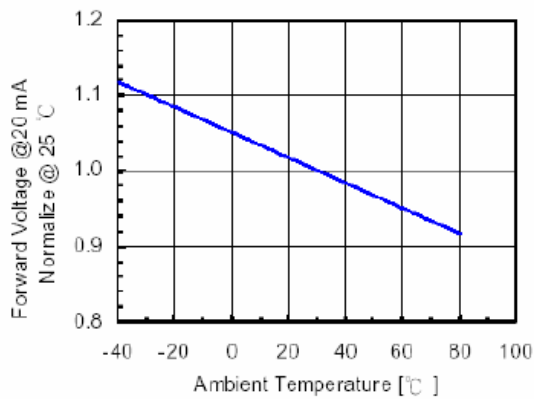
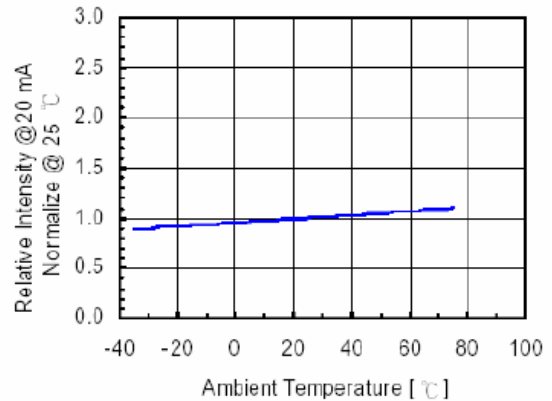


Fig 4. Relative Intensity vs. Temperature





Soldering

1. Manual of soldering

The temperature of the iron tip should not be higher than 260°C and Soldering within 3 seconds per solder-land is to be observed

2. DIP soldering (Wave Soldering):

Preheating: 120°C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)

