



# YETDA INDUSTRY LTD.

## 0.3" DUAL DIGIT SMD LED DISPLAY

### S-3011ASK11-SMD

#### DESCRIPTION

0.3" (7.62mm) Inch Digit Height.

Super Bright Red Display.

Black Face and White Segment .

Common Cathode

RoHs Compliant

#### ABSOLUT MAXIMUM RATINGS AT Ta=25°C

| Parameter                                                               |                | UNIT |
|-------------------------------------------------------------------------|----------------|------|
| Power Dissipation Per Seg.                                              | 40             | mW   |
| Peak Forward Current Per Seg.                                           | 120            | mA   |
| Forward current Per Seg.                                                | 30             | mA   |
| Reverse Voltage Per Seg.                                                | 5              | V    |
| Operation Temperature Range                                             | -40°C TO+80°C  | °C   |
| Storage Temperature Range                                               | -40°C TO+100°C | °C   |
| Solder Temperature 1/16 Inch Below Seating Plane For 5 Second At 260 °C |                |      |

#### ELECTRICAL/OPTOTICAL CHARACTERISTIC AT Ta=25°C

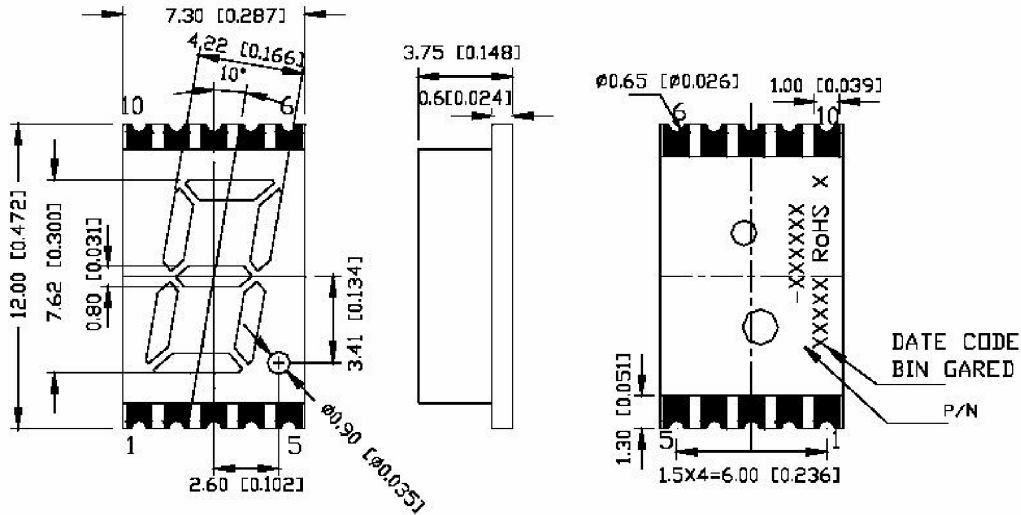
##### SUPER RED

| PARAMETER                         | SYMBOL      | MIN. | TYP. | MAX.  | UNIT | CONDITION |
|-----------------------------------|-------------|------|------|-------|------|-----------|
| Average Luminous Intensity        | Iv          | 4    | 12   |       | mcd  | If=20mA   |
| Peak Emission Wavelength          | $\lambda_p$ |      | 660  |       | nm   | If=20mA   |
| Froward Voltage Per Seg.          | Vf          |      | 1.8  | 2.2   | 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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## Mechanical Dimensions

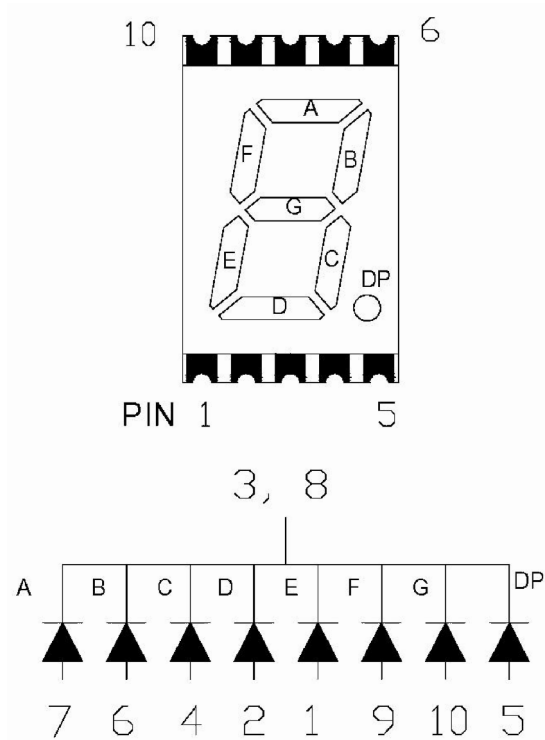


### Notes:

All dimensions are in millimeters [inches], and tolerance is  $\pm 0.25$  [0.010] unless otherwise noted.

Unit: mm

## Internal Circuit Diagrams

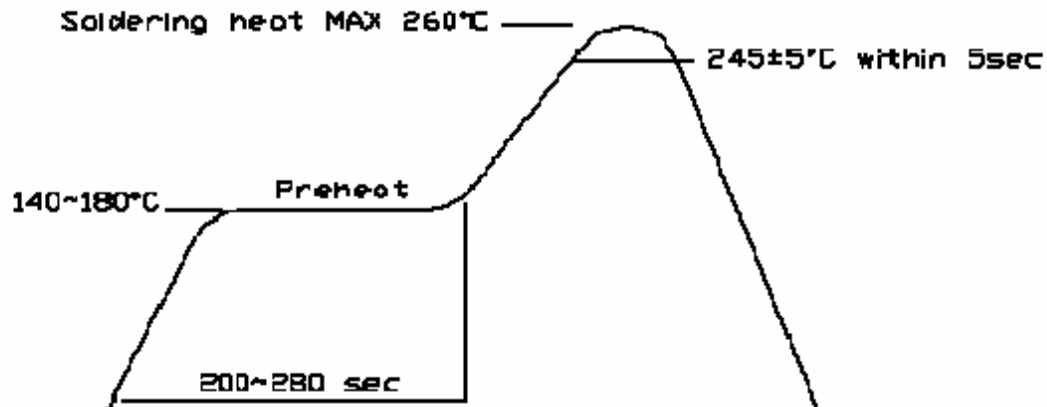




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## SMT REFLOW SOLDERING INSTRUCTIONS

### SOLDERING HEAT RELIABILITY (DIP):



### SOLDERING IRON

Basic spec is  $\leq 4$  sec when 260°C. If temperature is higher, time should be shorter (+10°C → 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

### REWORK

1. Customer must finish rework within 5 seconds under 260°C
2. The head of soldering iron cannot touch copper foil .

### ■ IR Reflow Temperature / Time :

#### SMT SOLDERING INSTRUCTION

