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| Spec. No. | PS-ND-0807 |
| Rev. | A |

PRODUCT SPECIFICATION

Model No : CSS-3014T9/3015T9

Descriptions:

- 3.0 Inch Single Digit Display
- Emitting Color : Super Bright Yellow



| CUSTOMER APPROVED | APPROVED BY | CHECKED BY | PREPARED BY |
|-------------------|-------------|------------|-------------|
| SIGNATURES | | | 陳新強 |

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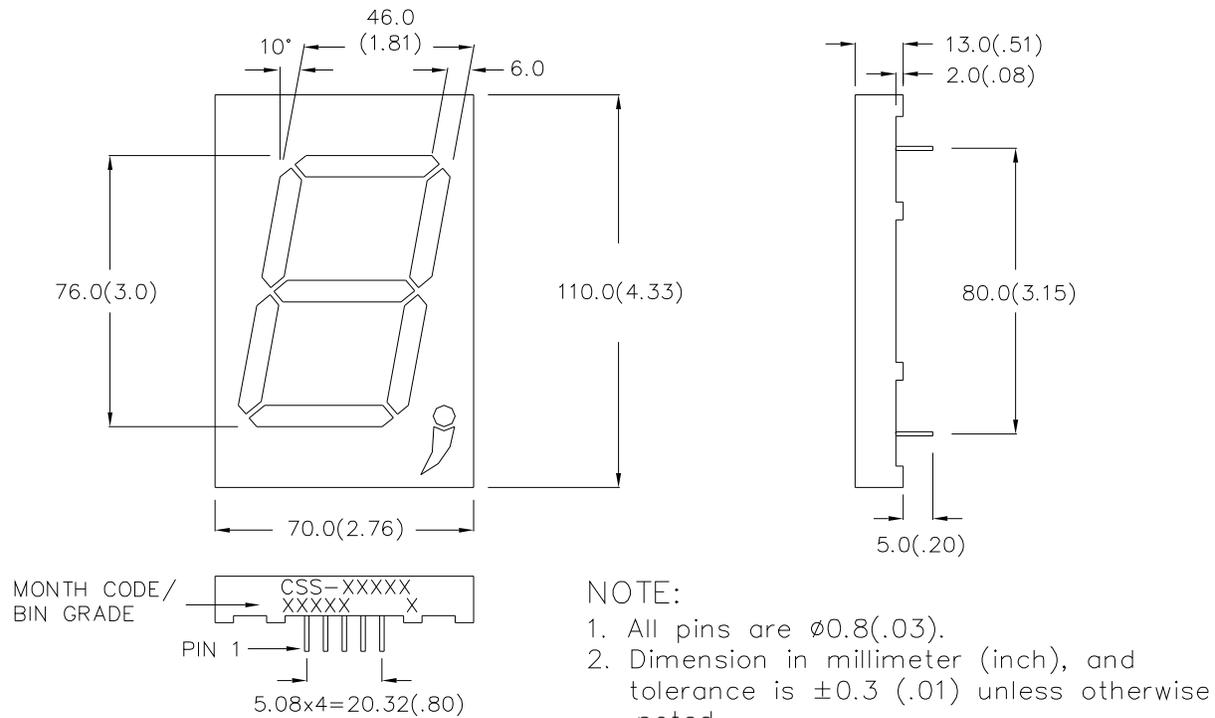
Features -

1. 3.0 inch (76.0mm) digit height.
2. Case mold type.
3. RoHs compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

Device Selection Guide -

| Part No. | Chip | | Description |
|-------------------|----------------|----------------------------|-----------------------|
| | Material | Emitted Color | |
| CSS-3014T9 | AlGaInP | Super Bright Yellow | Common Anode |
| CSS-3015T9 | AlGaInP | Super Bright Yellow | Common Cathode |

Mechanical Dimensions -

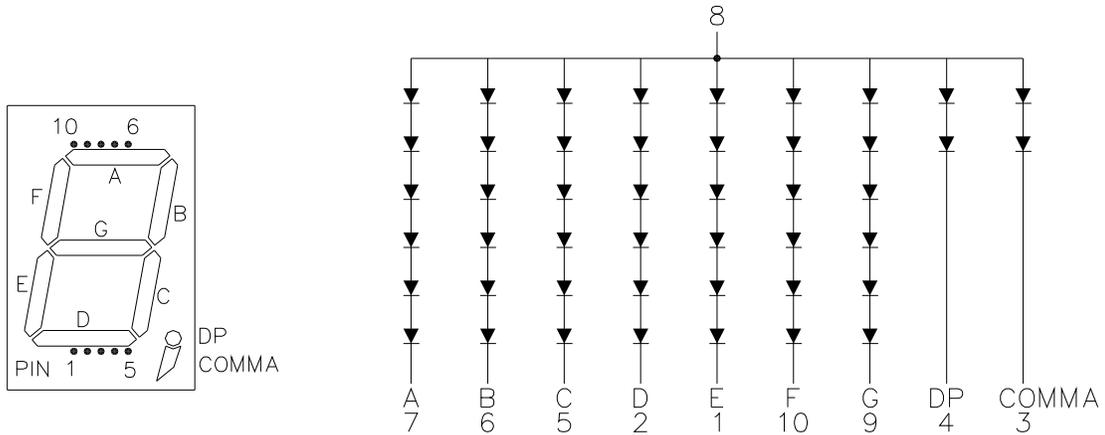




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Internal Circuit Diagrams -



CSS-3014 Common Anode
(CSS-3015 Common Cathode.)

Absolute Maximum Rating -

(Ta=25°C)

| Parameter | Symbol | Rating | Unit |
|--|--------|-----------|-------|
| Power Dissipation Per Dice | Pd | 70 | mW |
| Continuous Forward Current Per Dice | IAF | 25 | mA |
| Peak Current Per Dice | IPF | 90 | mA |
| Continuous Forward Current Per Dice | - | 0.33 | mA/°C |
| Reverse Voltage Per Dice | VR | 5 | V |
| Operating Temperature | Topr | -35 ~ +85 | °C |
| Storage Temperature | Tstg | -35 ~ +85 | °C |
| Solder temperature 1/16 inch below seating plane for 3 seconds at 260 °C | | | |



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Electro-optical Characteristics -

(Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|-----------------------------------|------------------|------|-----------|-----------|------|----------------------|
| Forward Voltage Per Segment (DP) | V _F | - | 12.6(4.2) | 16.8(5.6) | V | I _F =20mA |
| Luminous Intensity Per Segment | I _v | - | 120 | - | mcd | I _F =10mA |
| Peak Emission Wavelength | λ _P | - | 592 | - | nm | I _F =20mA |
| Dominant Wavelength | λ _d | - | 590 | - | nm | I _F =20mA |
| Spectrum Radiation Bandwidth | Δλ | - | 20 | - | nm | I _F =20mA |
| Reverse Current | I _R | - | - | 100 | μA | V _R =24V |
| Luminous Intensity Matching Ratio | I _{V-m} | - | - | 2:1 | - | I _F =10mA |



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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

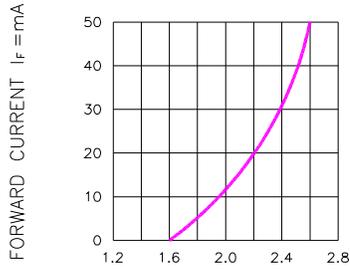


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

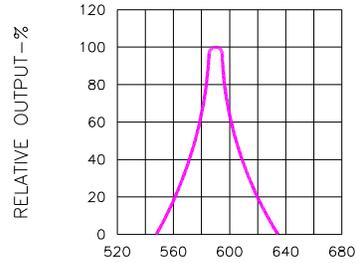


Fig.2 SPECTRAL RESPONSE

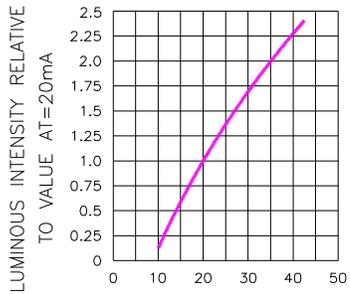


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

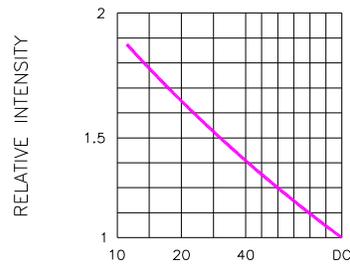


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE (AVERAGE I_F = 10mA)

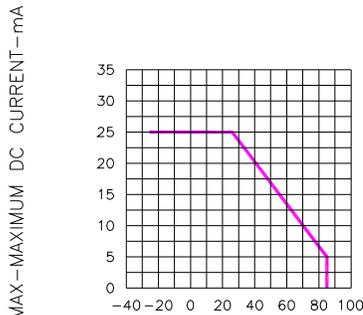


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE



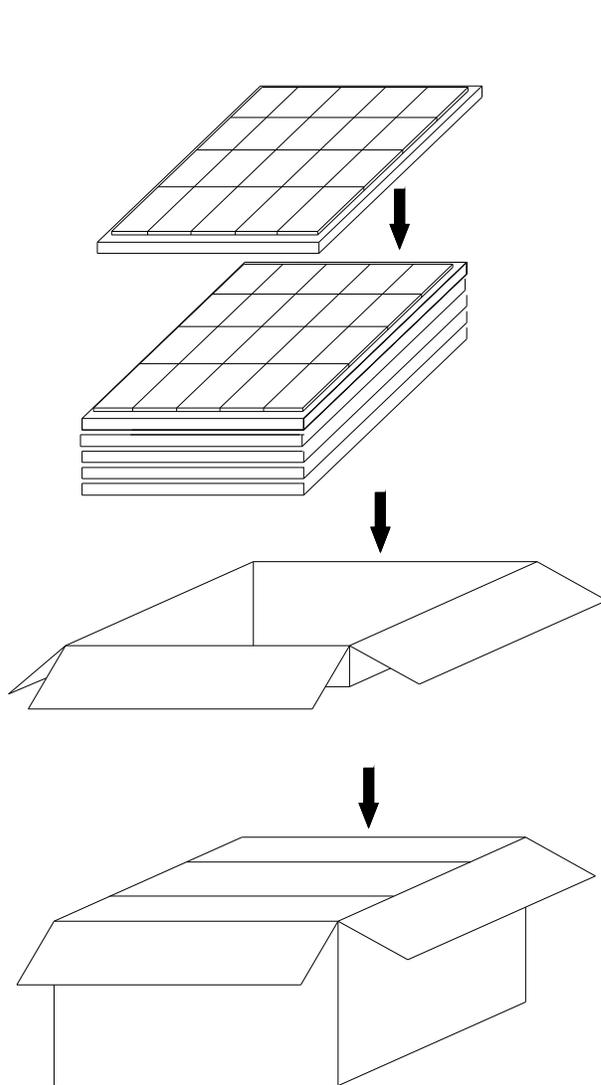
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



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Model No : CSS-3014T9/3015T9

■ Package Dimensions



Single Digit Display
Dice Code
CSS-301XX

14 pcs per polyform

5 polyform per box

Q'TY: 70 pcs

3 boxes per carton

Q'TY: 210 pcs

Carton Size:
L540xW485xH305.5mm

Note: The specifications are subject to change without notice. Please contact us for updated information.

<http://www.csctw.com.tw>