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| Spec. No. | PS-ND-0711 |
| Rev. | A |

PRODUCT SPECIFICATION

Model No : CSS-15104A9/15105A9

| Descriptions: |
|--|
| <ul style="list-style-type: none"> • 1.5 Inch Single Digit Display • Emitting Color : Super Bright Amber |



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

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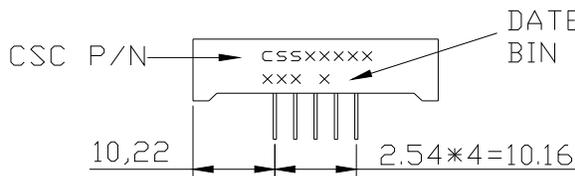
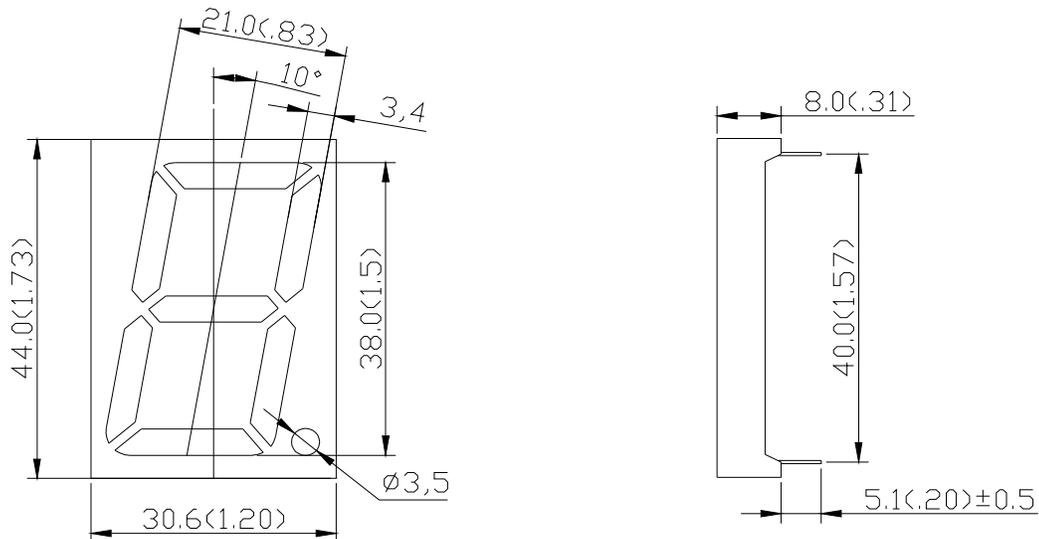
Features -

1. 1.5 inch (38.0mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. ESD>1KV(HBM)
6. Easy mounting on P.C. board or socket.

Device Selection Guide -

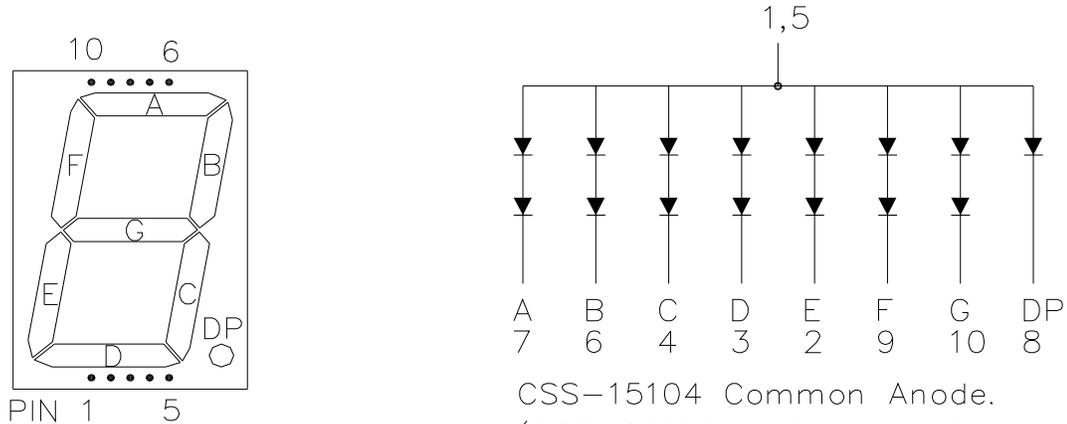
| Part No. | Chip | | Description |
|--------------------|----------------|---------------------------|-----------------------|
| | Material | Emitted Color | |
| CSS-15104A9 | AlGaInP | Super Bright Amber | Common Anode |
| CSS-15105A9 | AlGaInP | Super Bright Amber | Common Cathode |

Mechanical Dimensions -



NOTE:

1. All pins are ± 0.5 (0.02).
2. Dimension in millimeter (inch), and tolerance is 0.25 (0.01) unless otherwise noted.


Model No : CSS-15104A9/15105A9
Internal Circuit Diagrams -


CSS-15104 Common Anode.
(CSS-15105 is Common Cathode.)

Absolute Maximum Rating -

(Ta=25°C)

| Parameter | Symbol | Rating | Unit |
|---|-------------|-----------|-------|
| Power Dissipation Per Dice | Pd | 75 | mW |
| Continuous Forward Current Per Dice | IAF | 25 | mA |
| Peak Current Per Dice (duty cycle 1/10, 1KHz) | IPF | 90 | mA |
| Derating Linear From 25°C Per Dice | - | 0.33 | mA/°C |
| Reverse Voltage Per Dice | VR | 5 | V |
| Operating Temp. | Topr | -35 ~ +85 | °C |
| Storage Temp. | Tstg | -35 ~ +85 | °C |
| Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C | | | |


Model No : CSS-15104A9/15105A9
Electro-optical Characteristics -

(Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|-----------------------------------|------------------|------|----------|----------|---------|-----------|
| Forward Voltage Per Segment (DP) | VF | - | 4.0(2.0) | 5.6(2.8) | V | IF=20mA |
| Luminous Intensity Per Segment | Iv | - | 50 | - | mcd | IF=10mA |
| Peak Emission Wavelength | λ_p | - | 612 | - | nm | IF=20mA |
| Dominant Wavelength | λ_d | - | 606 | - | nm | IF=20mA |
| Spectrum Radiation Bandwidth | $\Delta \lambda$ | - | 20 | - | nm | IF=20mA |
| Reverse Current | IR | - | - | 100 | μ A | VR=10V |
| Luminous Intensity Matching Ratio | IV-m | - | - | 2:1 | | IF=10mA |



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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

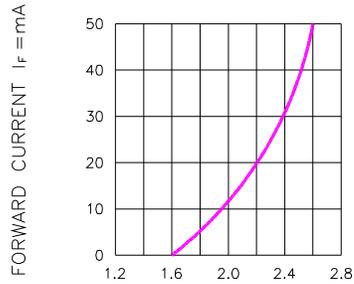


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

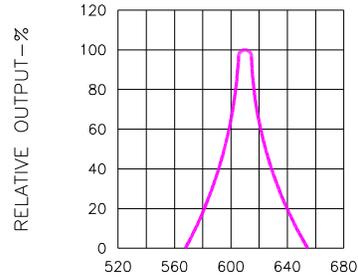


Fig.2 SPECTRAL RESPONSE

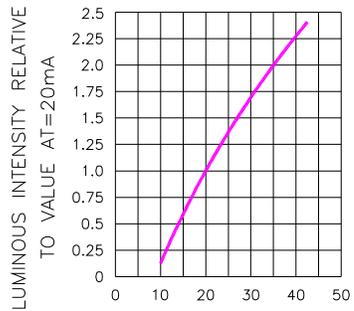


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

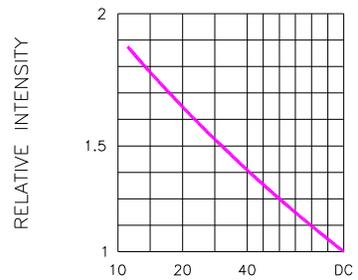


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

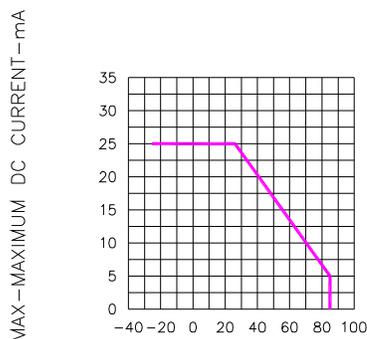


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

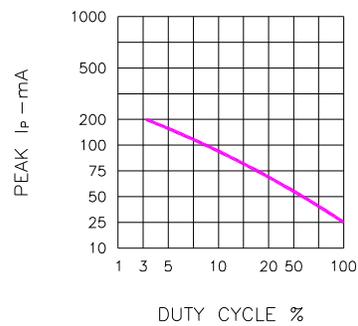


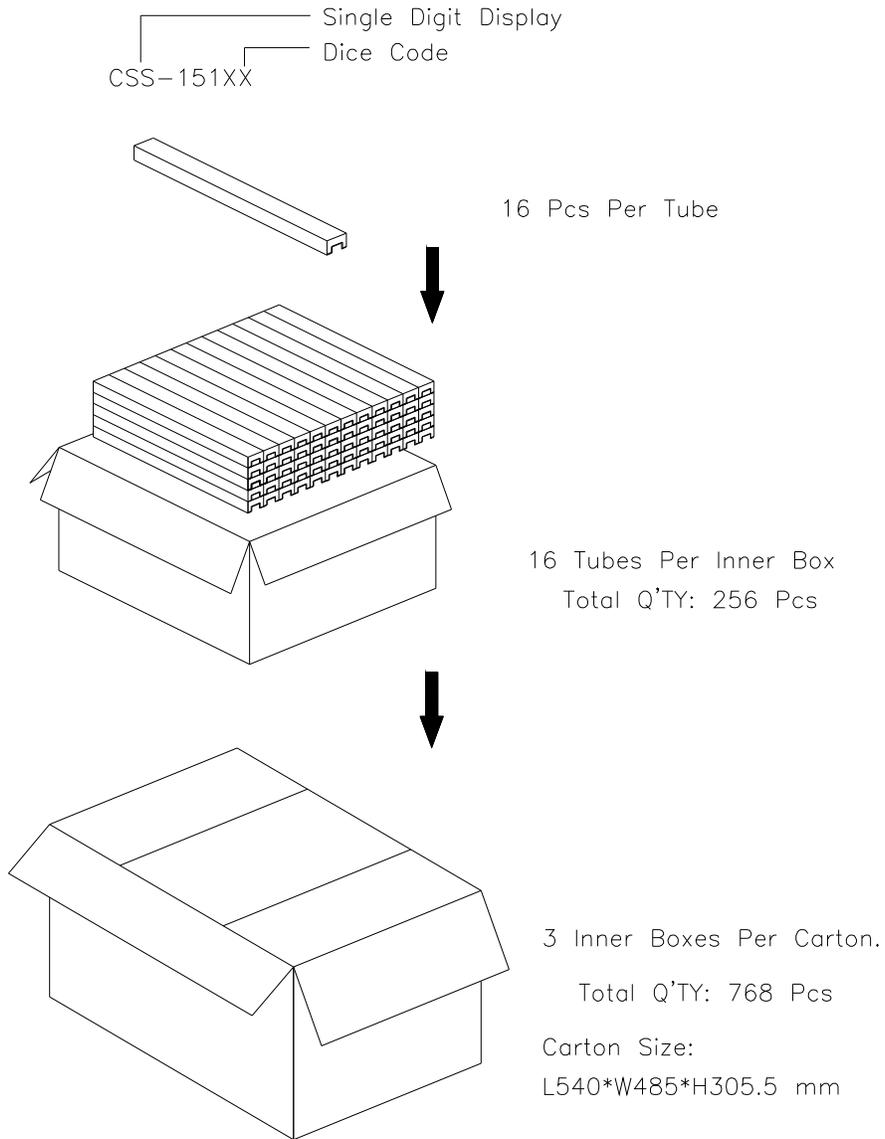
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE (REFRESH RATE f=1 KHz)



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■ Package Dimensions



Note: The specifications are subject to change without notice. Please contact us for updated information.
<http://www.csctw.com.tw>