



PRODUCT SPECIFICATION

Model No : CSS-1814A9/1815A9

Descriptions:

- 1.80 Inch Single Digit Display
- Emitting Color : Super Bright Amber



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
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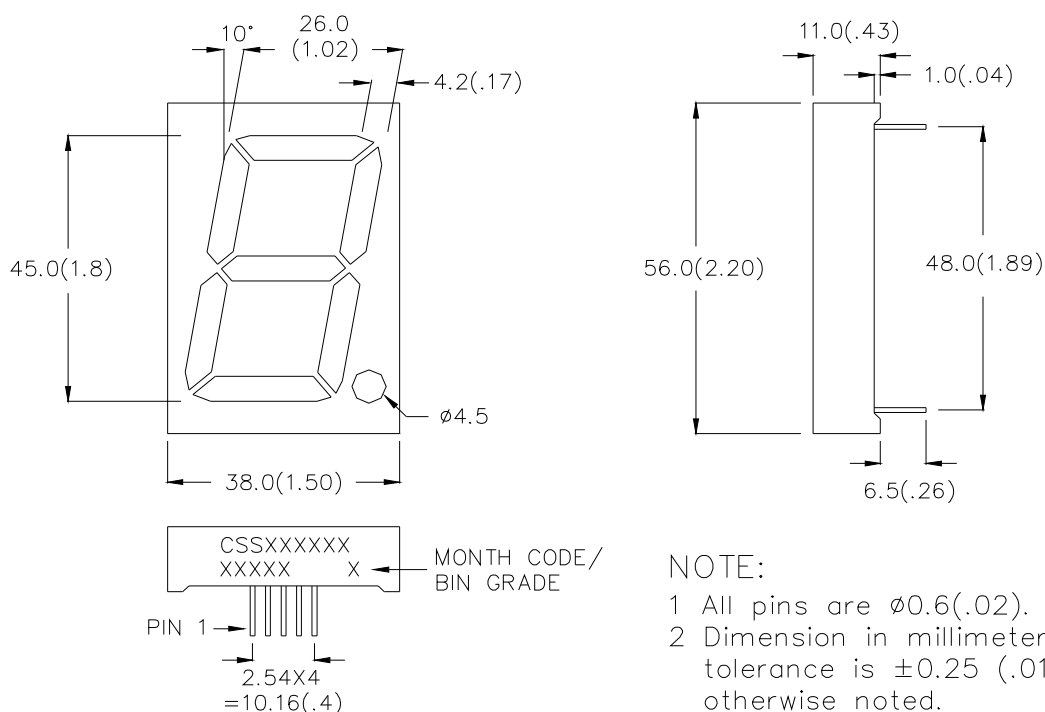
Spec. No.	PS-ND-0807
Rev.	A

Model No : CSS-1814A9/1815A9
Features -

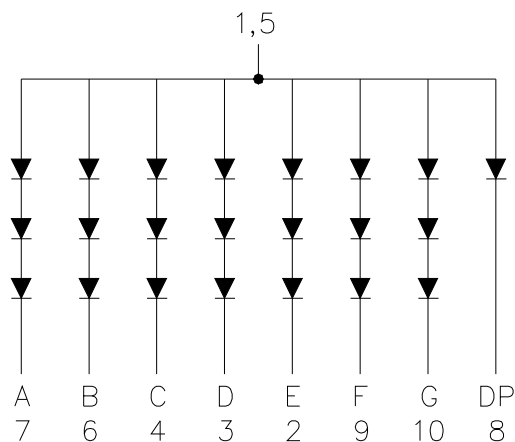
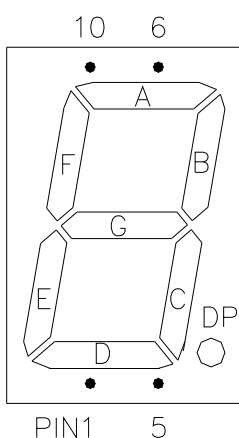
1. 1.80 inch (45.0mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

Device Selection Guide -

Part No.	Chip		Description
	Material	Emitted Color	
CSS-1814A9	AlGaInP	Super Bright Amber	Common Anode
CSS-1815A9	AlGaInP	Super Bright Amber	Common Cathode

Mechanical Dimensions -

NOTE:

- 1 All pins are $\phi 0.6(.02)$.
- 2 Dimension in millimeter (inch), and tolerance is ± 0.25 (.01) unless otherwise noted.


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Internal Circuit Diagrams -


CSS-1814 Common Anode
(CSS-1815 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
Derating Linear From 25°C 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)	VF	-	6.0(2.0)	8.4(2.8)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	85	-	mcd	IF=10mA
Peak Emission Wavelength	λP	-	612	-	nm	IF=20mA
Dominant Wavelength	λd	-	606	-	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	IF=20mA
Reverse Current	IR	-	-	100	μA	VR=12V
Luminous Intensity Matching Ratio	IV-m	-	-	2:1	-	IF=10mA



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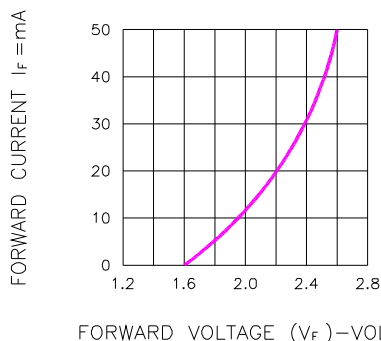
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Typical Electrical / Optical Characteristics Curves -
(Ta = 25°C Unless Otherwise Noted)


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

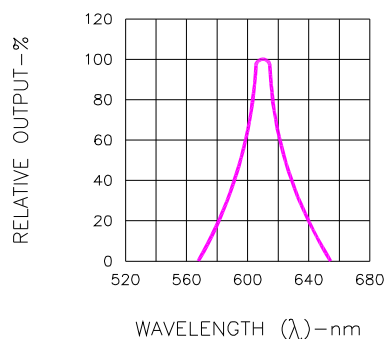


Fig.2 SPECTRAL RESPONSE

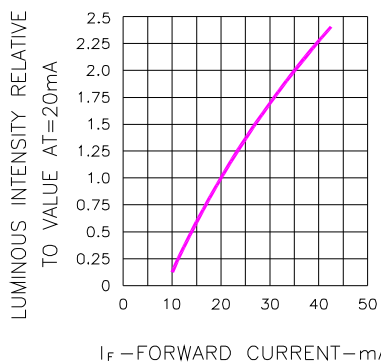


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

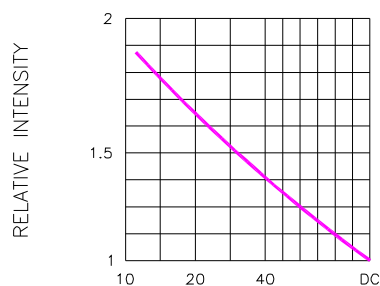
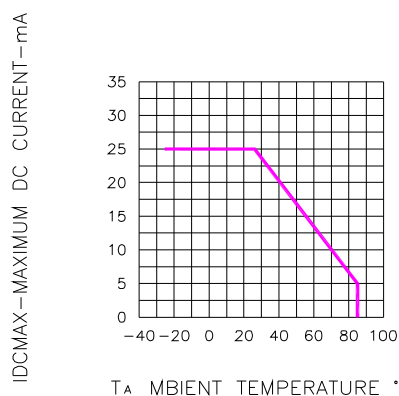
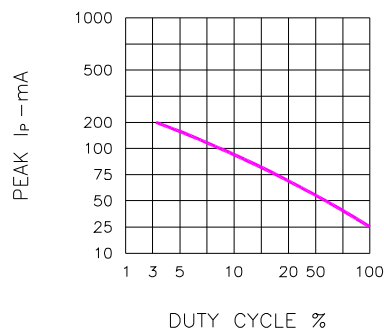
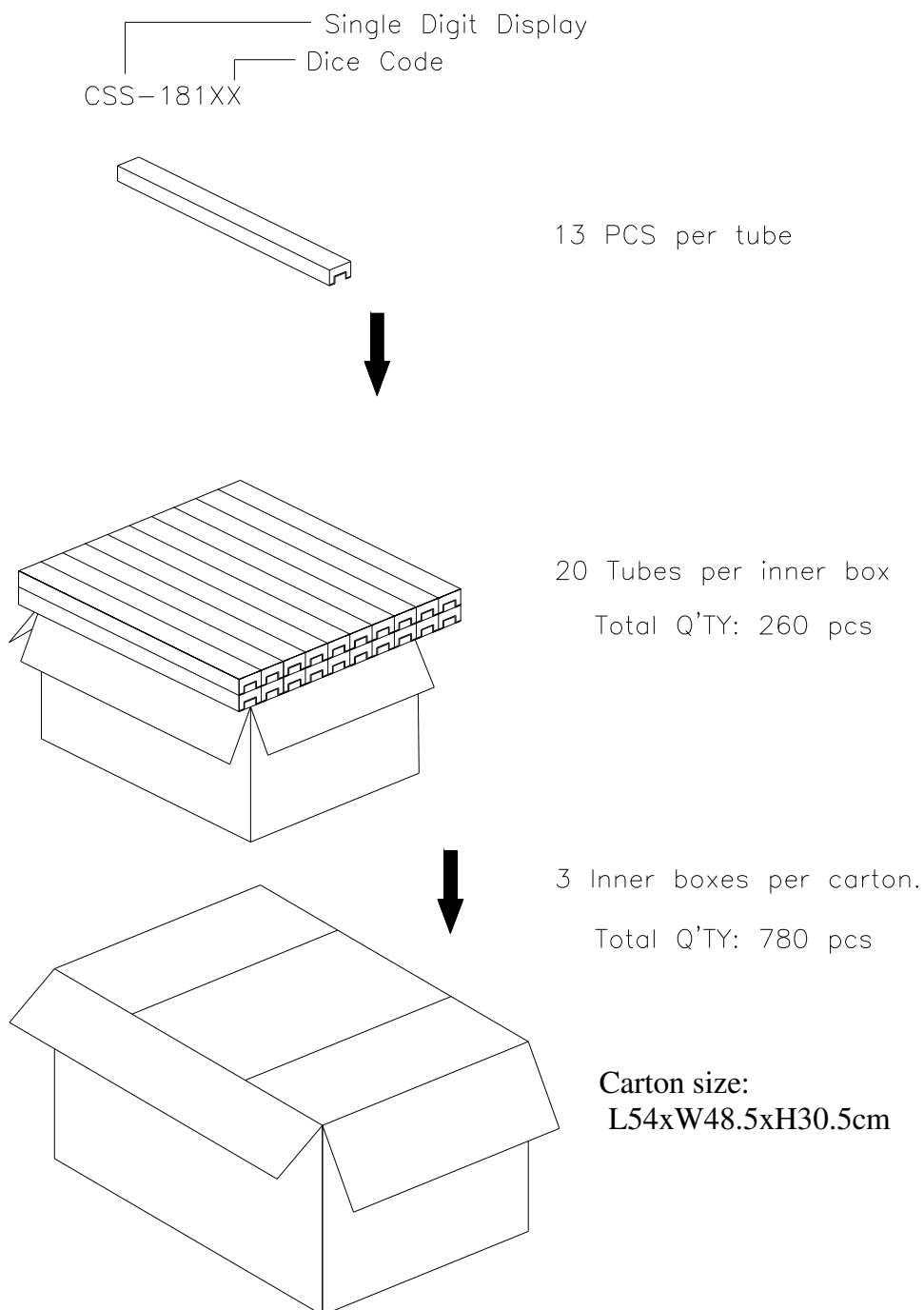

 Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE
(AVERAGE $I_F = 10$ mA)


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-1814A9/1815A9**■ Package Dimensions**

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

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