

PRODUCT SPECIFICATION

Model No : CSS-1814T9/1815T9

Descriptions:

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



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
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Model No : CSS-1814T9/1815T9

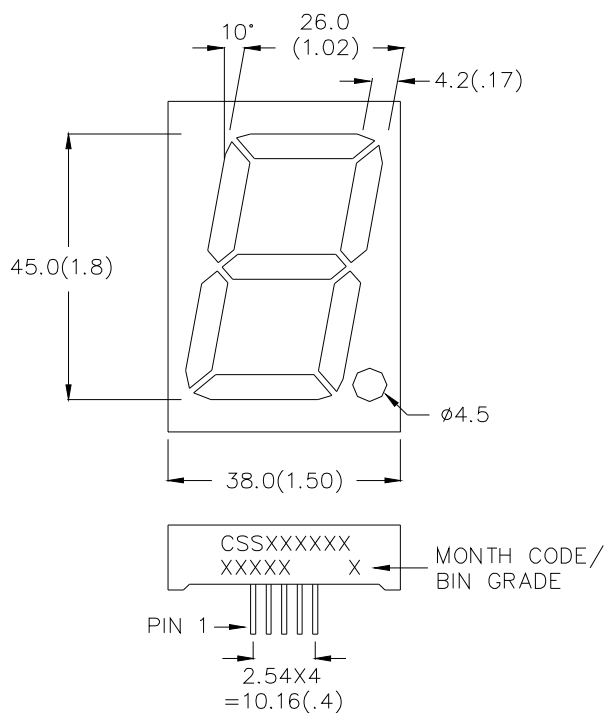
Features -

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-1814T9	AlGaInP	Super Bright Yellow	Common Anode
CSS-1815T9	AlGaInP	Super Bright Yellow	Common Cathode

Mechanical Dimensions -

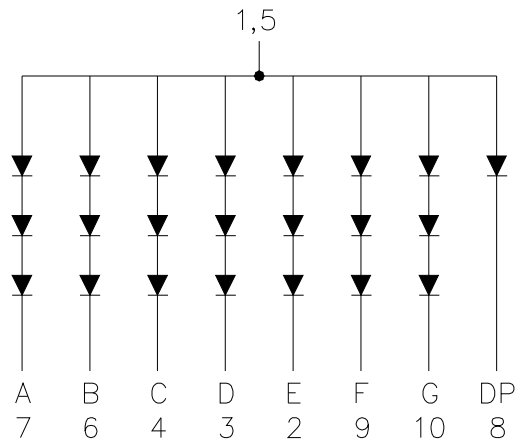
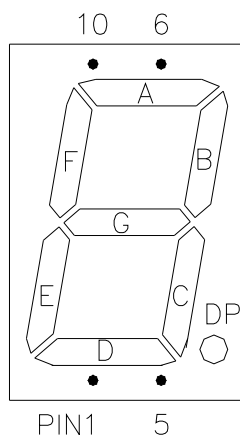


NOTE:

- 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(Duty cycle 1/10, 1KHz)	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)	VF	-	6.3(2.1)	8.4(2.8)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	70	-	mcd	IF=10mA
Peak Emission Wavelength	λP	-	592	-	nm	IF=20mA
Dominant Wavelength	λd	-	590	-	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	IF=20mA
Reverse Current	IR	-	-	100	μA	VR=5V
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)

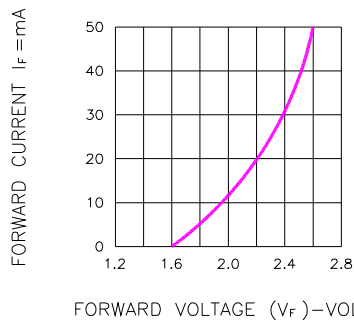


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

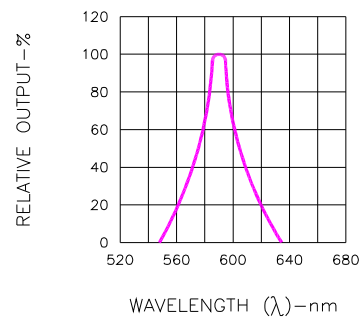


Fig.2 SPECTRAL RESPONSE

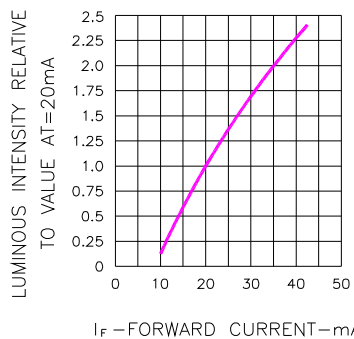


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

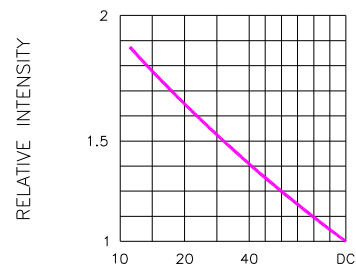


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE
(AVERAGE $I_f = 10\text{mA}$)

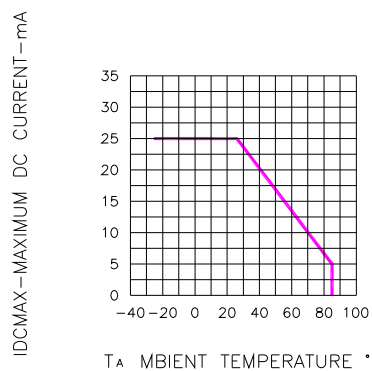


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

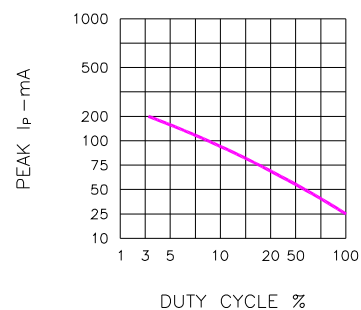
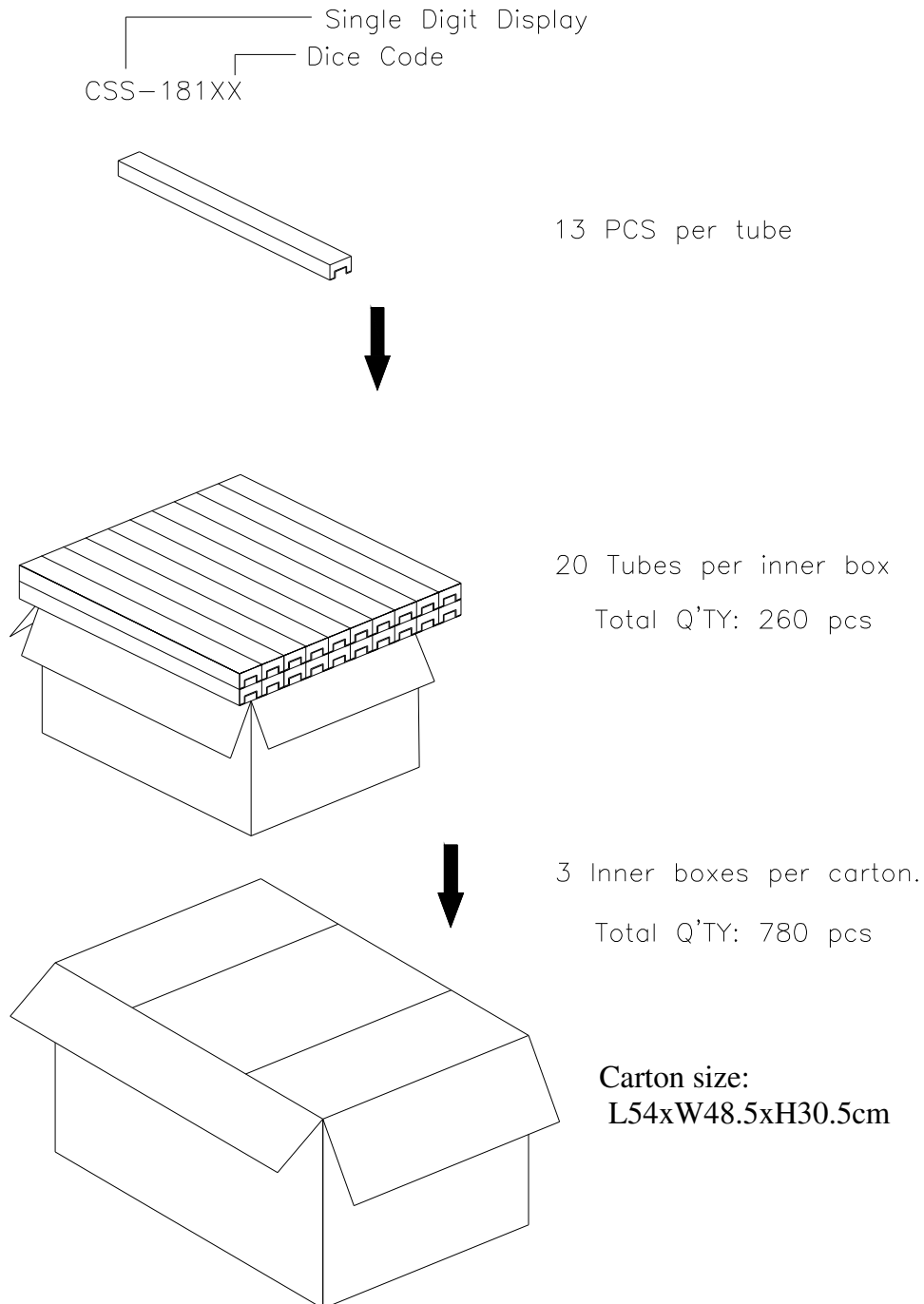


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE $f = 1\text{ KHz}$)

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■ Package Dimensions



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

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