



PRODUCT SPECIFICATION

Model No : CSS-1014T9/1015T9

Descriptions:

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



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			陳新強

CHINA SEMICONDUCTOR CORPORATION

Address:2FL. NO.909,Chung-Cheng Road,
Chung-Ho City Taipei Hsien,Taiwan.

Tel:886-2-2223-9696
Fax:886-2-2223-9377

OPTO PLUS TECHNOLOGIES CO.,LTD

Address:696 Shun jiang Rd.,Ji Shan St.Shaoxing,
ZheJiang,China

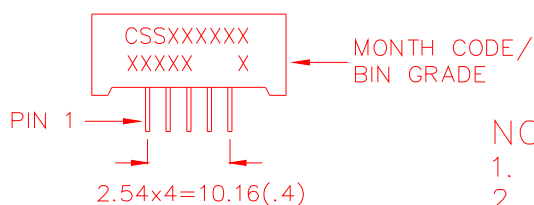
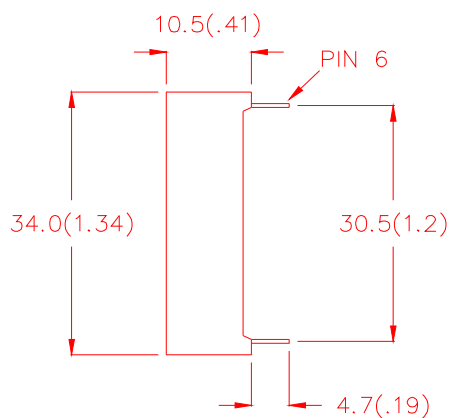
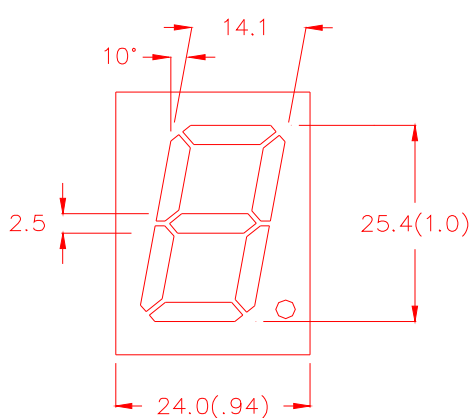
Tel:86-0575-88623888
Fax:86-0575-88623112


Model No : CSS-1014T9/1015T9
Features -

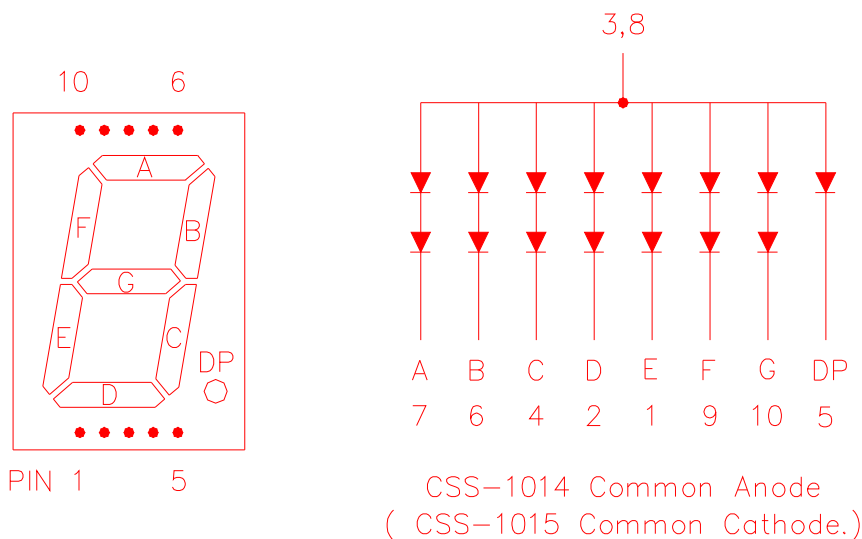
1. 1.0 inch (25.4mm) digit height.
2. Case mold type.
3. RoHs compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

Device Selection Guide -

Model No.	Chip		Description
	Material	Emitted Color	
CSS-1014T9	AlGaInP	Super Bright Yellow	Common Anode
CSS-1015T9	AlGaInP	Super Bright Yellow	Common Cathode

Mechanical Dimensions -

NOTE:

1. All pins are $\phi 0.5(.02)$.
2. Dimension in millimeter (inch), and tolerance is ± 0.25 (.01) unless otherwise noted.


Model No : CSS-1014T9/1015T9
Internal Circuit Diagrams -

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			


Model No : CSS-1014T9/1015T9
■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment (DP)	V _F	-	4.2(2.1)	5.6(2.8)	V	I _F =20mA
Luminous Intensity Per Segment	I _v	-	40	-	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 =10V
Luminous Intensity Matching Ratio	I _V -m	-	-	2:1	-	I _F =10mA

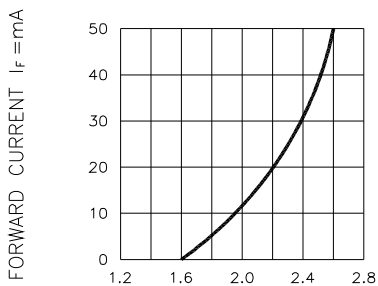

Model No : CSS-1014T9/1015T9
Typical Electrical / Optical Characteristics Curves -
(Ta = 25°C Unless Otherwise Noted)


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

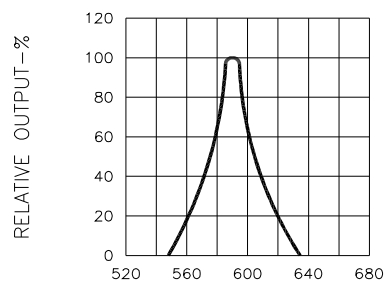


Fig.2 SPECTRAL RESPONSE

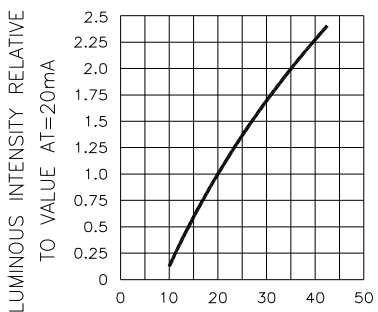


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

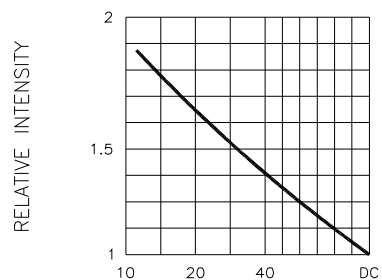


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

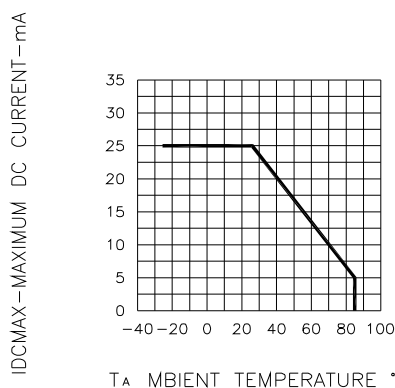


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

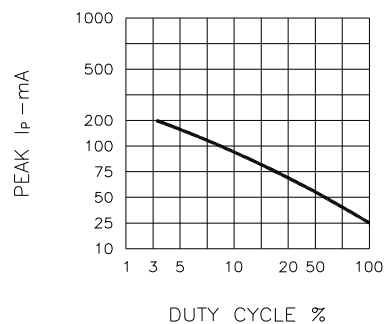
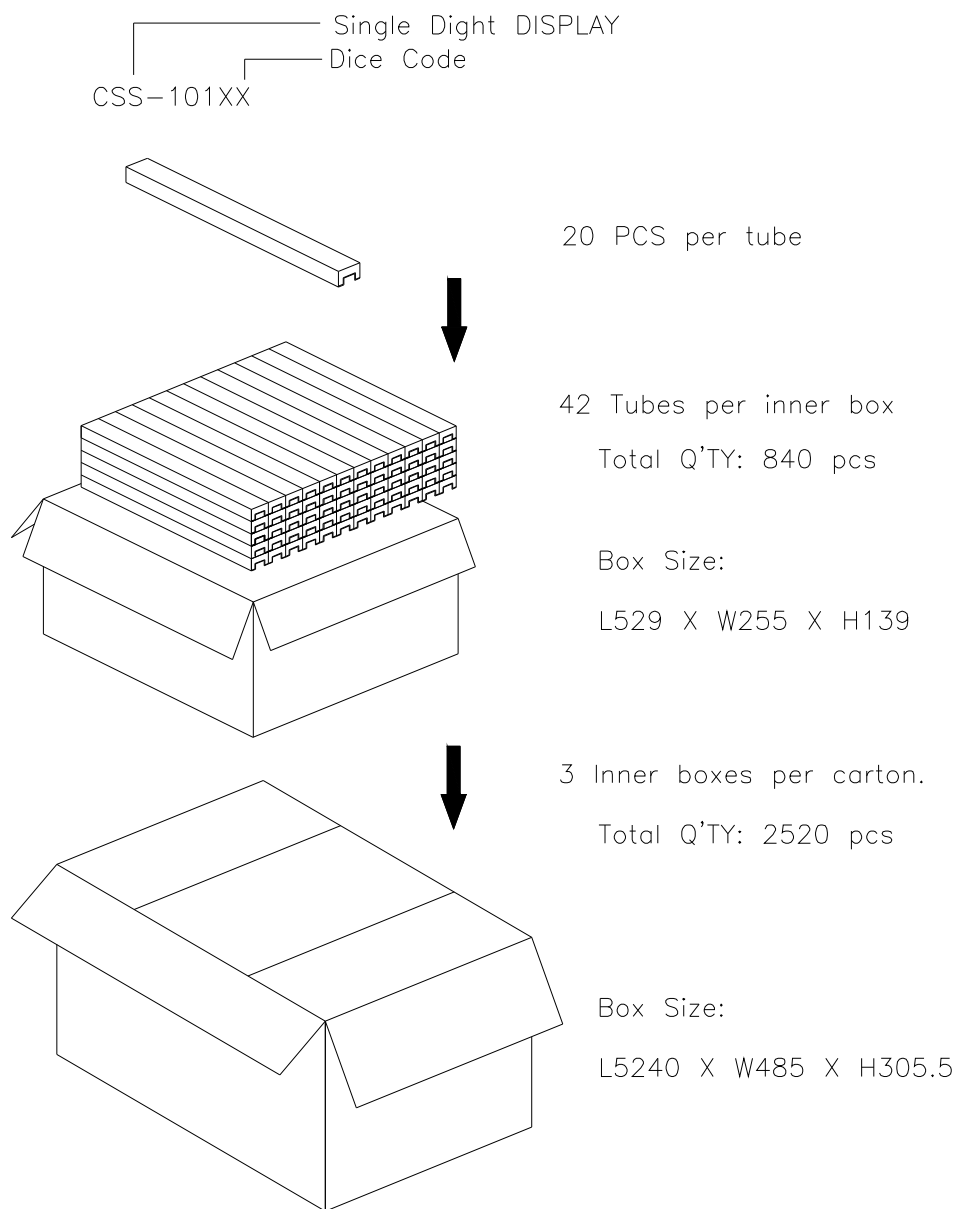


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE $f=1$ KHz)



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

Model No : CSS-1014T9/1015T9**■ Package Dimensions**

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

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