



<b>Spec. No.</b>	PS-ND-0712
<b>Rev.</b>	A

# PRODUCT SPECIFICATION

**Model No : CSS-1116V9/CSS-1117V9**

## Descriptions:

- 1.0 Inch Single Digit Alphanumeric Display
- Emitting Color: Super-Bright Orange



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			

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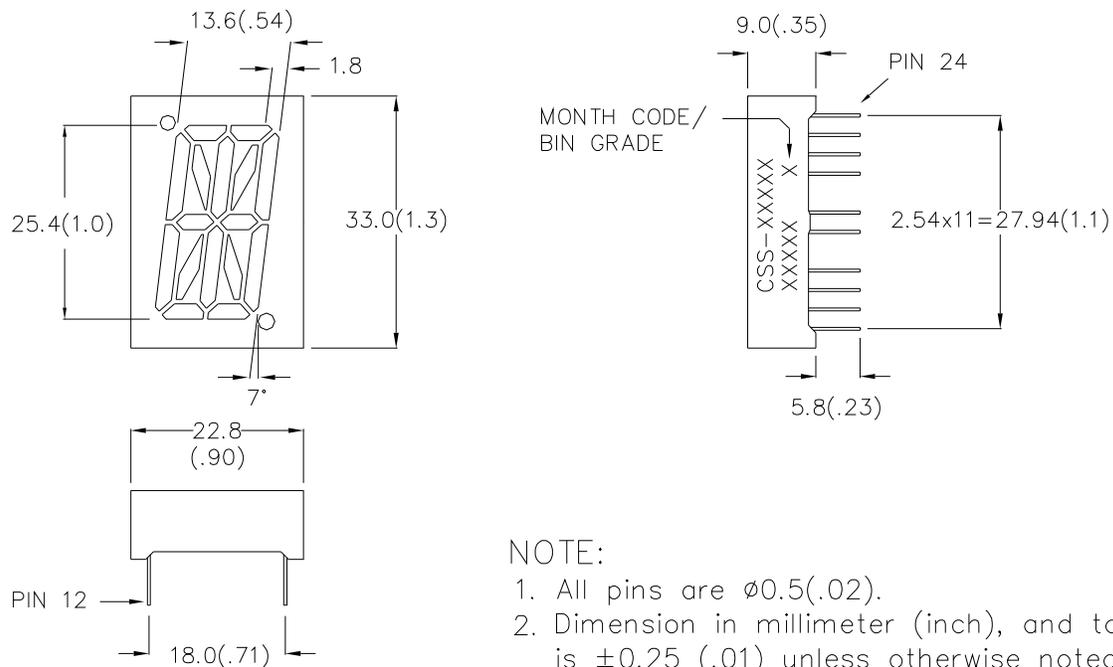
<http://www.csctw.com.tw>

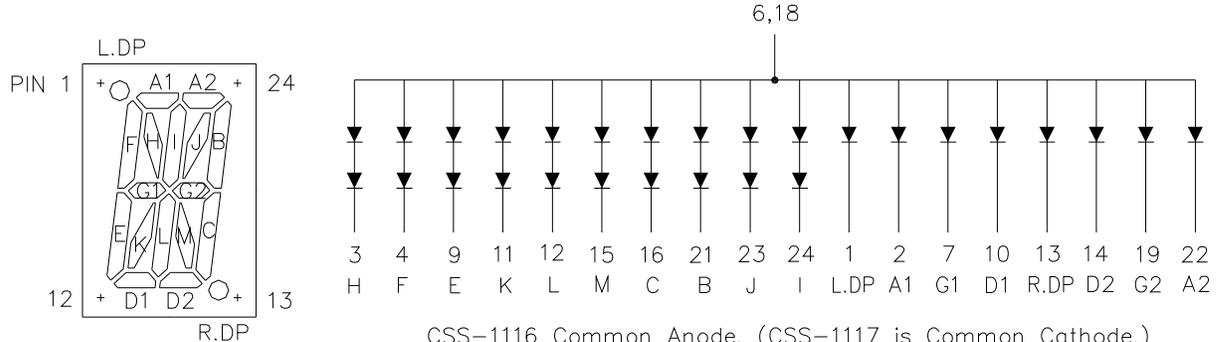

**Model No : CSS-1116V9/1117V9**
**Features -**

1. 1.00 inch (25.4 mm) 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-1116V9	AlGaInP	Super-Bright Orange	Common Anode
CSS-1117V9			Common Cathode

**Package Dimensions -**



**Model No : CSS-1116V9/1117V9**
**Internal Circuit Diagrams -**


CSS-1116 Common Anode. (CSS-1117 is Common Cathode.)  
NO. 5, 8, 17, 20 No Pin.

**Absolute Maximum Rating -**

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	Pd	65	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 Temperature	Topr	-25 ~ +85	°C
Storage Temperature	Tstg	-25 ~ +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 Two Dice (One Dice)	VF	-	4.2(2.1)	5.2(2.6)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	30	-	mcd	IF=10mA
Peak Emission Wavelength	$\lambda_p$	-	632	-	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	IF=20mA
Reverse Current	IR	-	-	100	$\mu A$	VR=10V
Luminous Intensity Matching Ratio	IV-m	-	-	2 : 1	-	IF=20mA



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**Typical Electrical / Optical Characteristics Curves -**

(Ta = 25°C Unless Otherwise Noted)

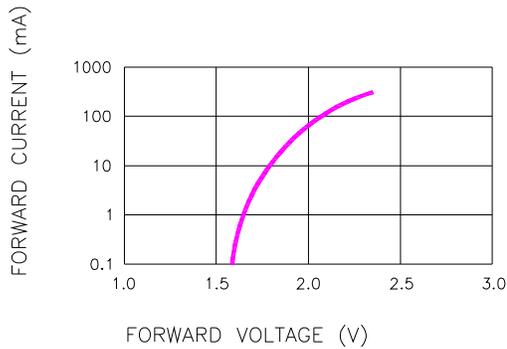


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

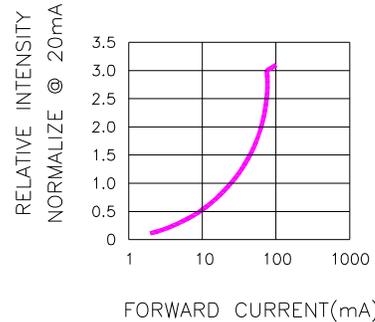


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

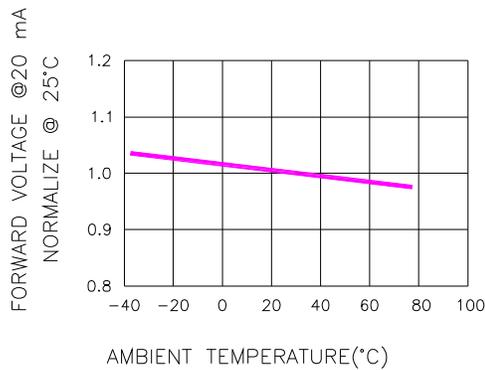


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

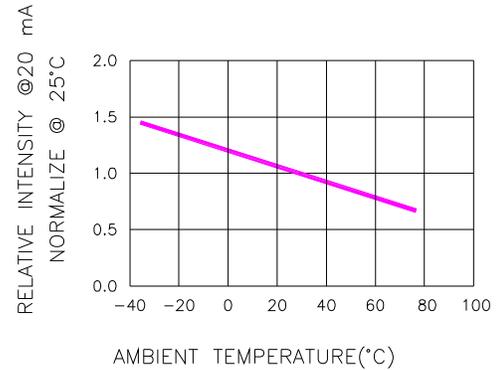


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

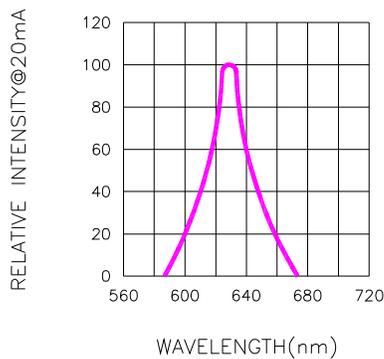


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

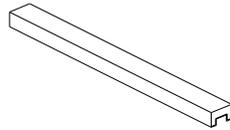


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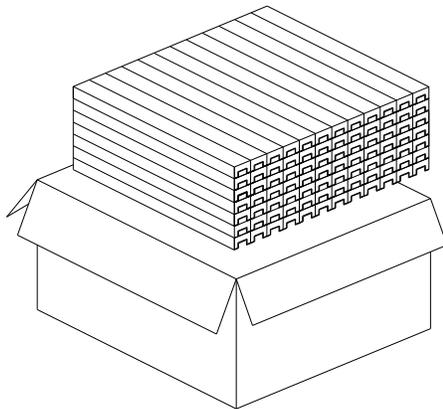
**Model No : CSS-1116V9/1117V9**

**■ Package Dimensions**

S = Single Digit Display  
 Dice Code  
 CSS-1116X-21  
 Segment Resin Color Code. 1=White Segment.  
 Surface silk Screen Ink Code. 2=Black (1=Gray).



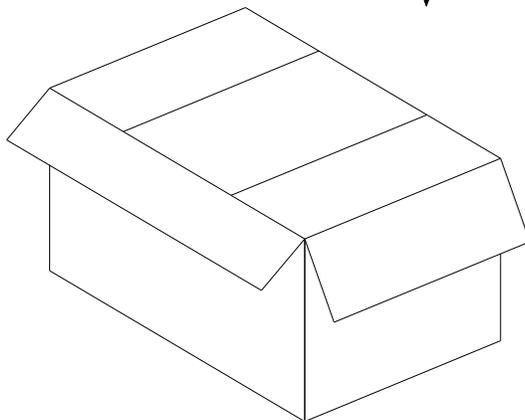
1 TUBE From Box = 15 PCS



1 BOX= 50 TUBE From Box  
Q'TY: 750 PCS.



1 CARTON = 3 BOX.  
Q'TY: 2250 PCS.



**CARTON SIZE:  
L540xW485xH305mm**

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