



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

PRODUCT SPECIFICATION

Model No : CSS-1014V9/1015V9

Descriptions:

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



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			陳新強

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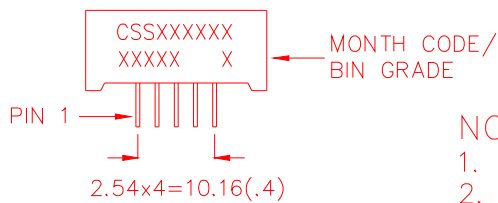
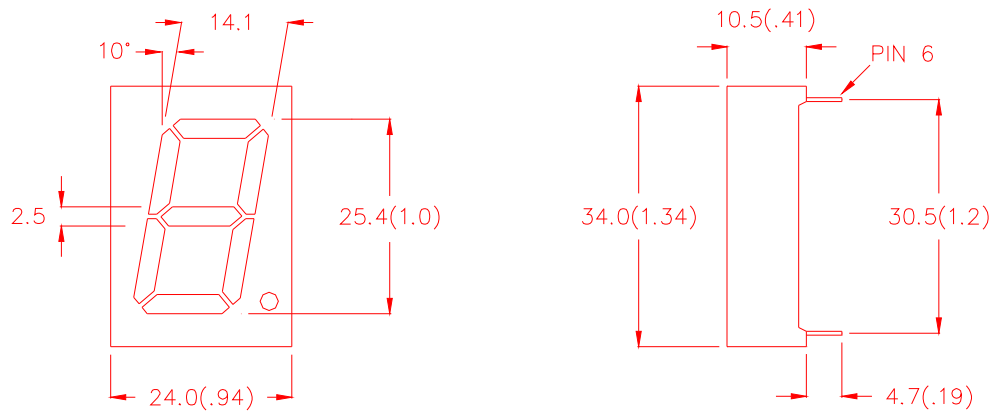
Features -

1. 1.0 inch (25.4mm) 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-1014V9	AlGaInP	Super Bright Orange	Common Anode
CSS-1015V9	AlGaInP	Super Bright Orange	Common Cathode

Mechanical Dimensions -



NOTE:

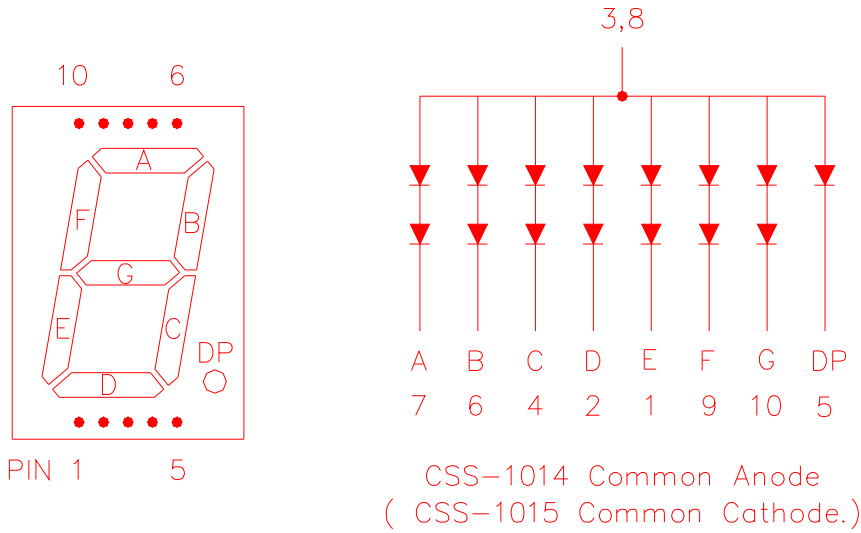
1. All pins are $\phi 0.5 (.02)$.
2. Dimension in millimeter (inch), and tolerance is $\pm 0.25 (.01)$ unless otherwise noted.



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Internal Circuit Diagrams -



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	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			



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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	$I_F=20\text{mA}$
Luminous Intensity Per Segment	I_v	-	40	-	mcd	$I_F=20\text{mA}$
Peak Emission Wavelength	λ_p	-	632	-	nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d	-	624	-	nm	$I_F=20\text{mA}$
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	$I_F=20\text{mA}$
Reverse Current	I_R	-	-	100	μA	$V_R=10\text{V}$
Luminous Intensity Matching Ratio	I_{V-m}	-	-	2:1	-	$I_F=10\text{mA}$



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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

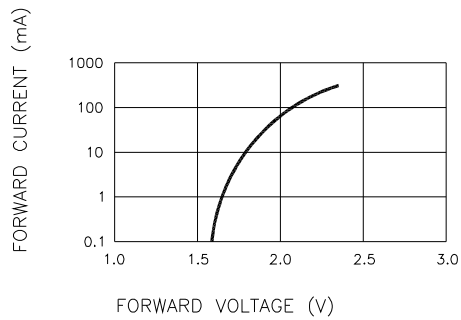


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

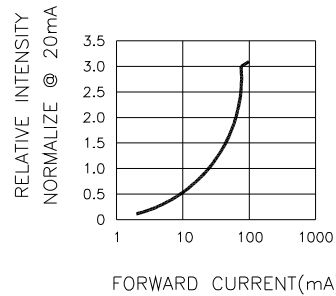


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

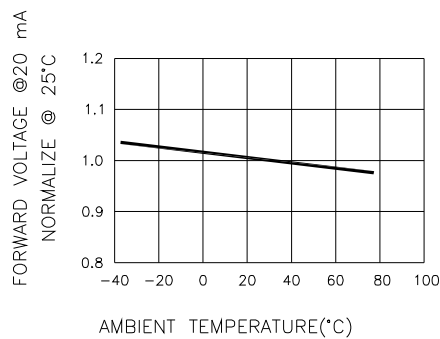


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

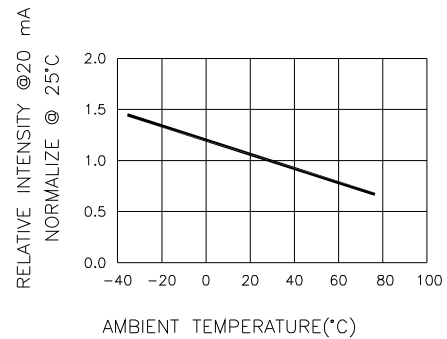


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

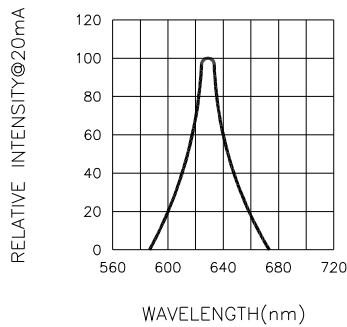


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

