



PRODUCT SPECIFICATION

Model No : CSS-5160S/CSS-5161S

Descriptions:

- 0.50 Inch Single Digit Alphanumeric Display
- Emitting Color: Super-Bright Red



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			

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Spec. No.	PS-ND-0712
Rev.	A

Model No : CSS-5160S/5161S

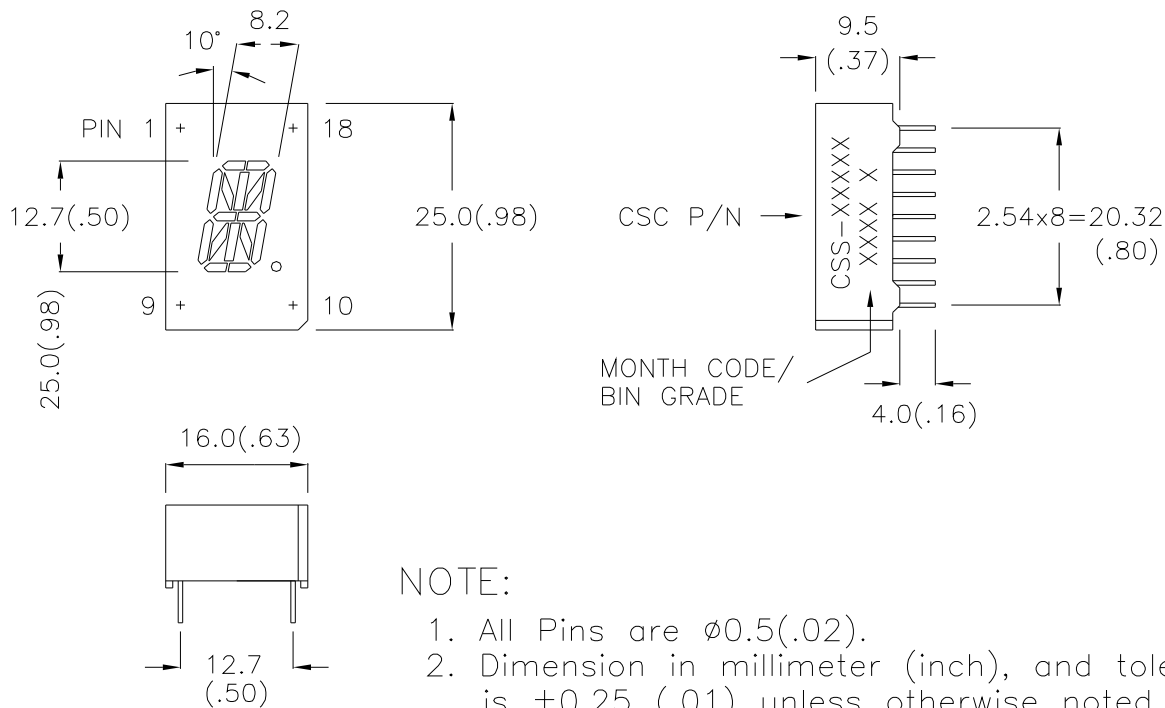
■ **Features -**

1. 0.50 inch (12.7 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-5160S	AlGaAs	Super-Bright Red	Common Anode
CSS-5161S			Common Cathode

■ **Package Dimensions -**

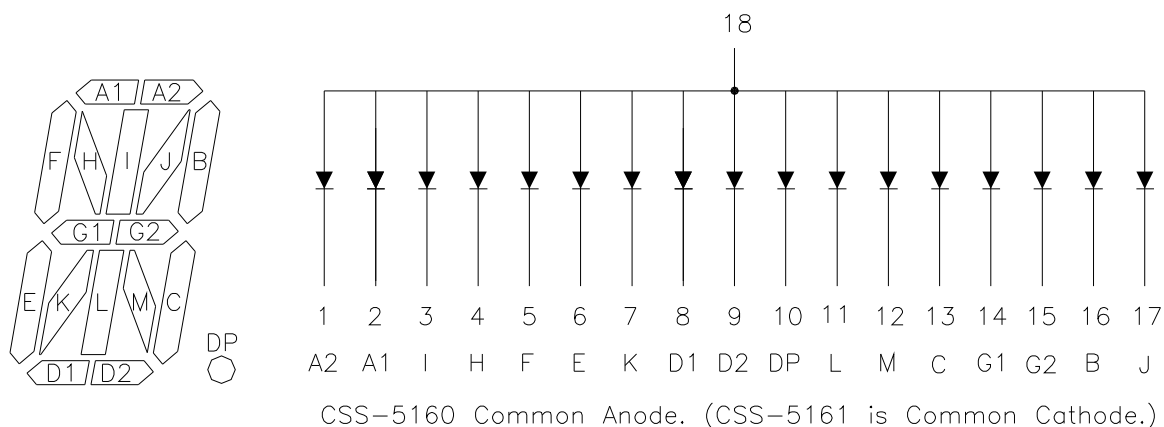




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Internal Circuit Diagrams -



Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	Pd	75	mW
Continuous Forward Current Per Dice	IAF	30	mA
Peak Current Per Dice (duty cycle 1/10, 1kHz)	IPF	125	mA
Derating Linear From 25°C Per Dice	-	0.42	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 Per Segment	VF	-	1.8	2.5	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	5	-	mcd	IF=10mA
Peak Emission Wavelength	λ_p	-	660	-	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=20mA



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■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

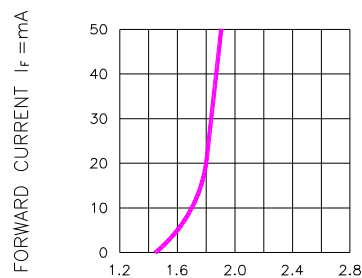


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

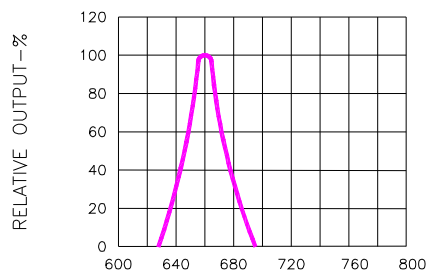


Fig.2 SPECTRAL RESPONSE

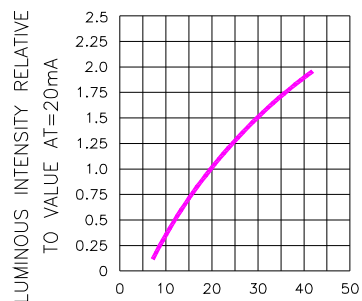


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

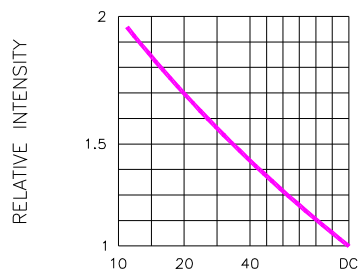


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

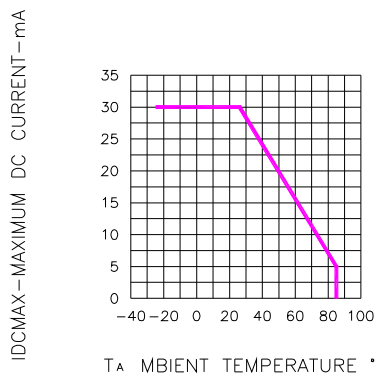


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

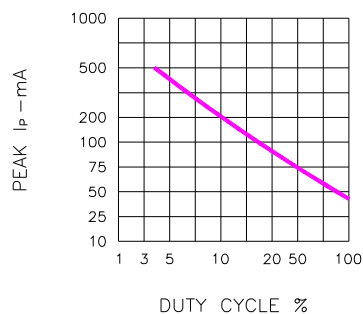


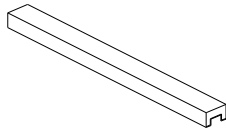
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



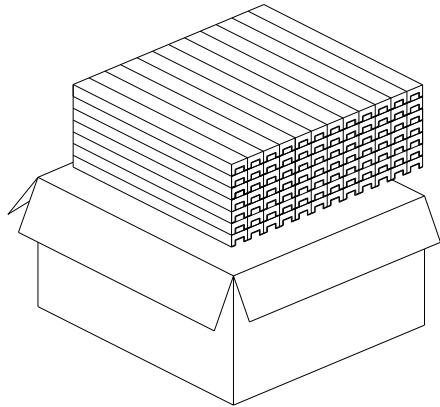
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■ Package Dimensions

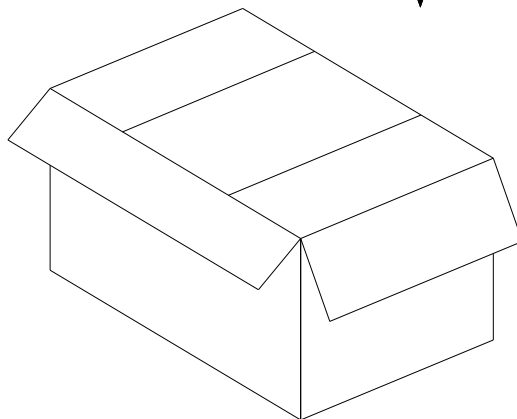
Single Digit Display
Dice Code
CSS-516XS



1 TUBE From Box = 20 PCS



1 BOX= 60 TUBE From Box
Q'TY: 1200 PCS.



1 CARTON = 3 BOX.
Q'TY: 3600 PCS.

Carton Size:
L540 x W485 x 305 mm

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