



# PRODUCT SPECIFICATION

**Model No.: CSDM-88002A**

Descriptions:
<ul style="list-style-type: none"> <li>■ 0.76 Inch Dot-Matrix Display</li> <li>■ 8*8 Array with X-Y Select.</li> <li>■ Column Cathode, Row Anode</li> <li>■ Emitting Color: Super Bright Amber</li> <li>■ Gray Face</li> <li>■ White Dot</li> </ul>



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			

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Spec. No.	PS-DM-88002A
Rev.	A

**Model No.: CSDM-88002A**

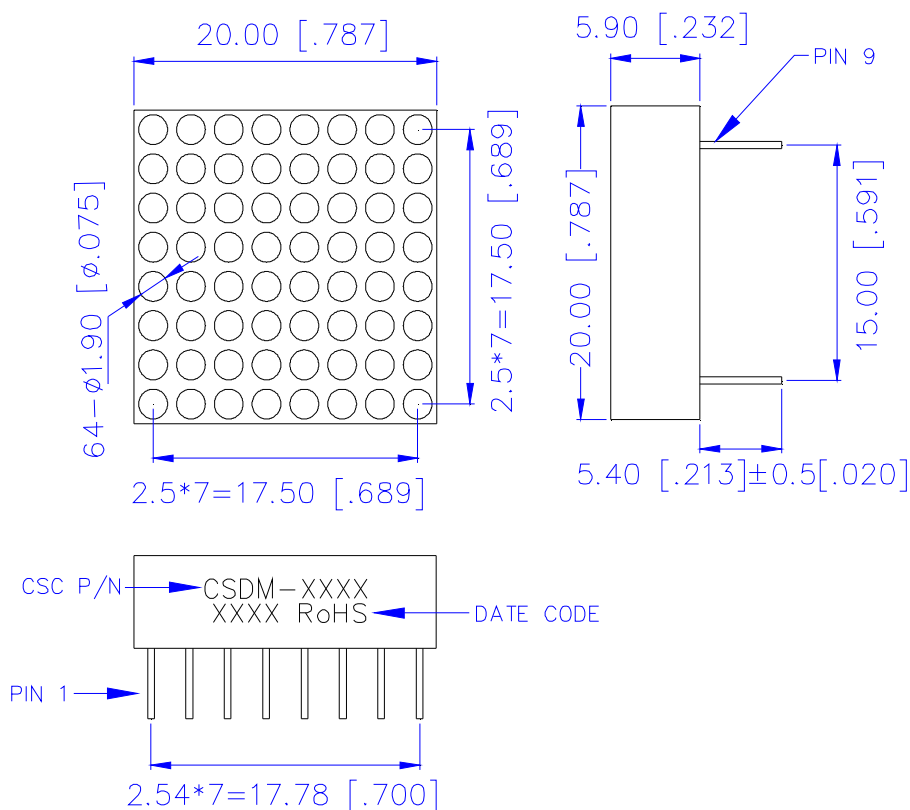
**Features -**

1. 0.76 inch (19.4mm) Matrix height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. Standard: gray face, white dot.
6. Easy mounting on P.C. board or socket.

**Device Selection Guide -**

Model No.	Chip		Description	
	Material	Emitting Color	Column	Row
CSDM-88002A	AlGaInP	Super Bright Amber	Cathode	Anode

**Mechanical Dimensions -**



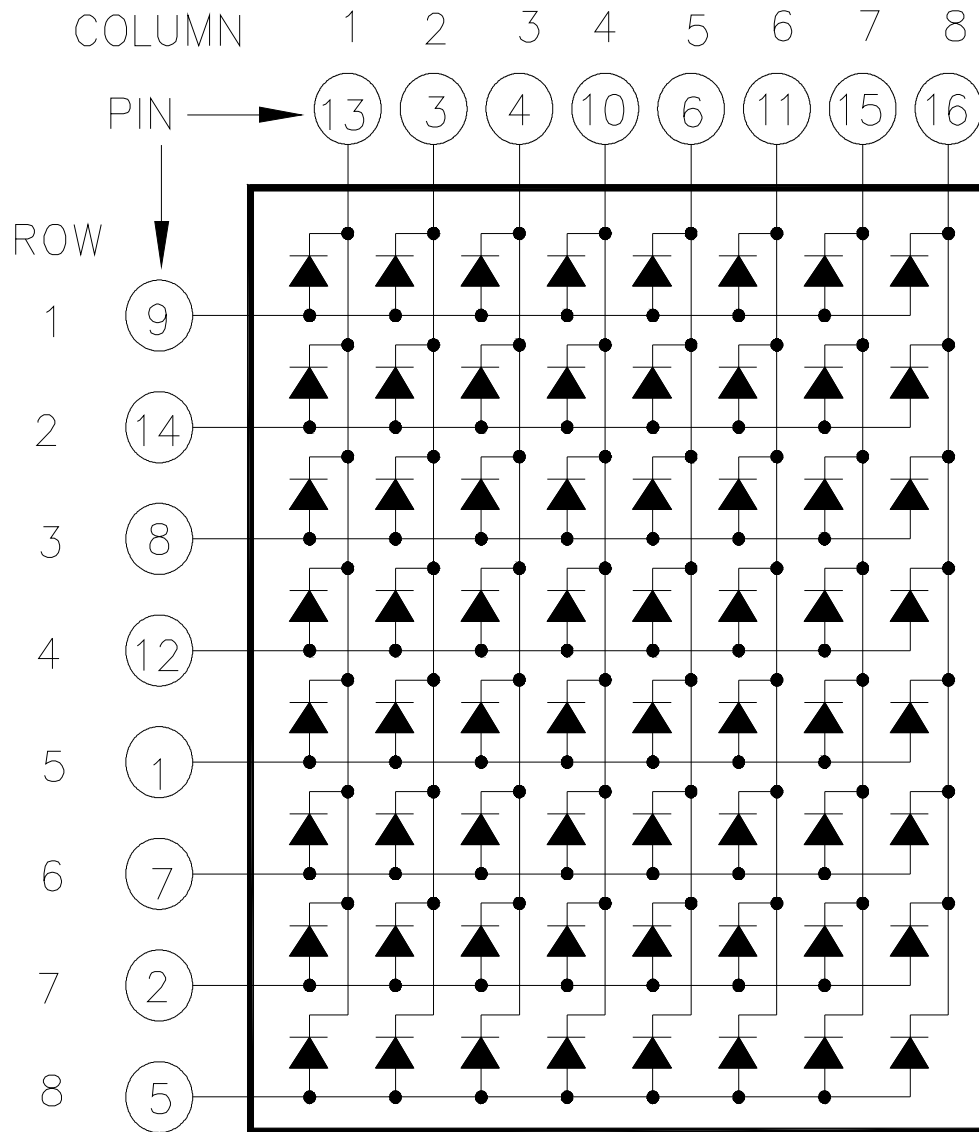
**Notes:**

1. All pins are  $\varnothing 0.50 [0.020]$
2. Dimension in millimeter [inch], and tolerance is  $\pm 0.25 [0.010]$  unless otherwise noted.
3. Bending  $\leq$  Length\*1%.



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Internal Circuit Diagrams -





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■ Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P <sub>AD</sub>	70	mW
Continuous Forward Current Per Dice	I <sub>AF</sub>	25	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	I <sub>PF</sub>	90	mA
Derating Linear From 25 °C Per Dice	-	0.33	mA/°C
Reverse Voltage Per Dice	V <sub>R</sub>	5	V
Operating Temp.	T <sub>opr</sub>	-35 ~ +85	°C
Storage Temp.	T <sub>stg</sub>	-35 ~ +85	°C

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Dot	V <sub>F</sub>	-	2	2.8	V	I <sub>F</sub> =20mA
Luminous Intensity Per Dot	I <sub>v</sub>	12	38	-	mcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λ <sub>p</sub>	-	612	-	nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	-	606	-	nm	I <sub>F</sub> =20mA
Spectrum Radiation Bandwidth	Δλ	-	20	-	nm	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	-	-	100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	I <sub>V-m</sub>	-	-	2:1	-	I <sub>p</sub> =80mA 1/16Duty



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■ **Typical Electrical / Optical Characteristics Curves -**

(Ta = 25°C Unless Otherwise Noted)

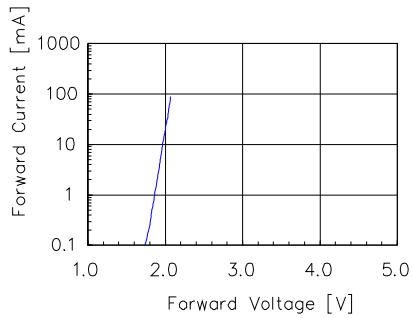


Fig 1. Forward Current vs. Forward Voltage

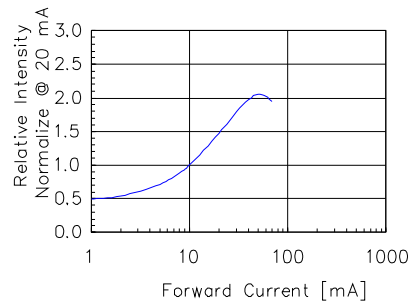


Fig 2. Relative Intensity vs. Forward Current

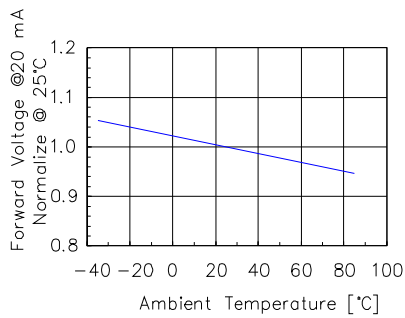


Fig 3. Forward Voltage vs. Temperature

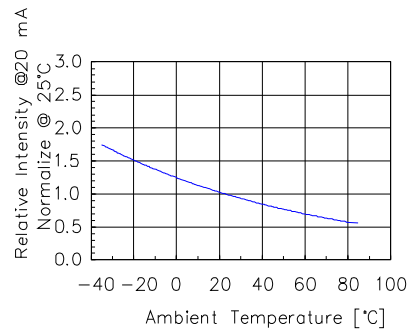


Fig 4. Relative Intensity vs. Temperature

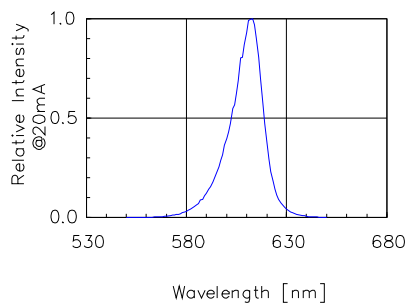


Fig 5. Relative Intensity vs. Wavelength



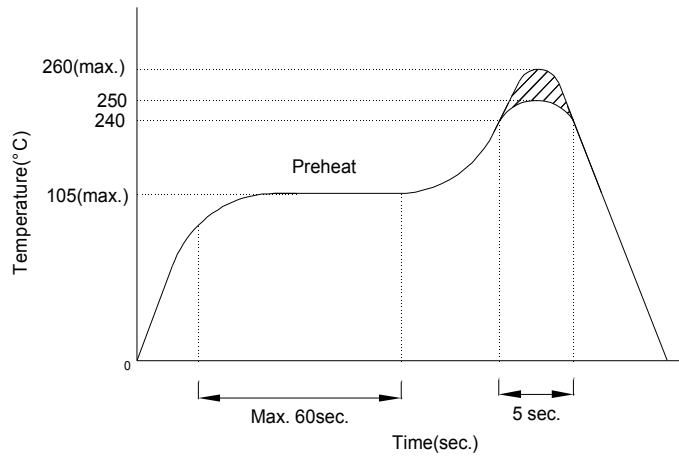
Spec. No.	PS-DM-88002A
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■ Precautions For Use -

1. Recommended Soldering conditions

Wave Soldering



2. Soldering Iron

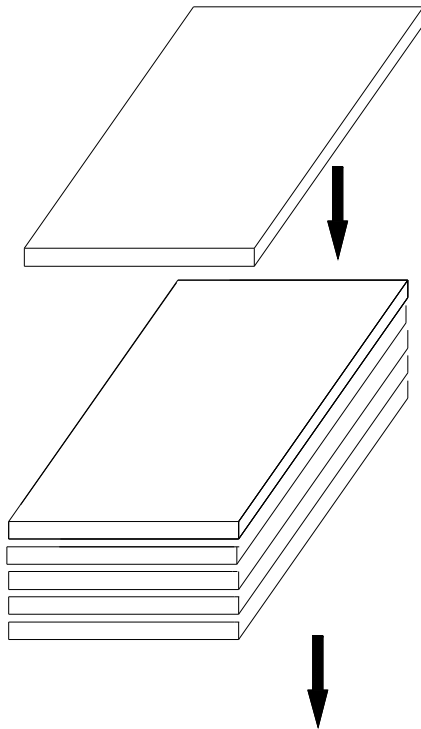
Basic SPEC. is  $\leq 5$ sec. When  $260^{\circ}\text{C}$ . If temperature is higher, time should be shorter ( $+10^{\circ}\text{C} \rightarrow -1$ sec.). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under  $230^{\circ}\text{C}$ .



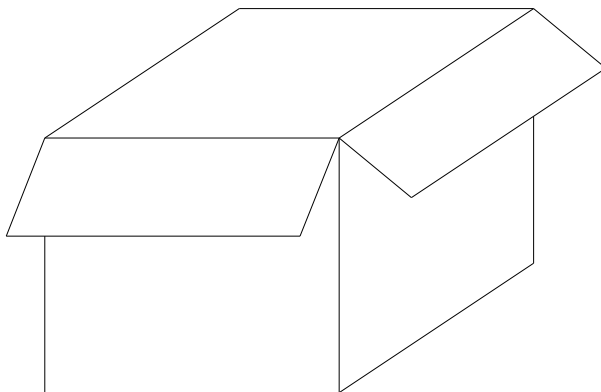
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■ Package Dimensions



96 Pcs Per PE.foam  
PE.foam Size:  
L295xW195xH15mm



11 PE.foam Per Box  
Q'TY: 1056 PCS  
Box Size:  
L300\*W205\*H240mm

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