



Spec. No.	PS-DM-57100V
Rev.	A

PRODUCT SPECIFICATION

Model No.: CSDM-57100V

Descriptions:
■ 1.2Inch Dot-Matrix Display
■ 5*7 Array with X-Y Select.
■ Column Cathode, Row Anode
■ Emitting Color: Super Bright Orange
■ Gray Face
■ White Dot



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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Model No.: CSDM-57100V

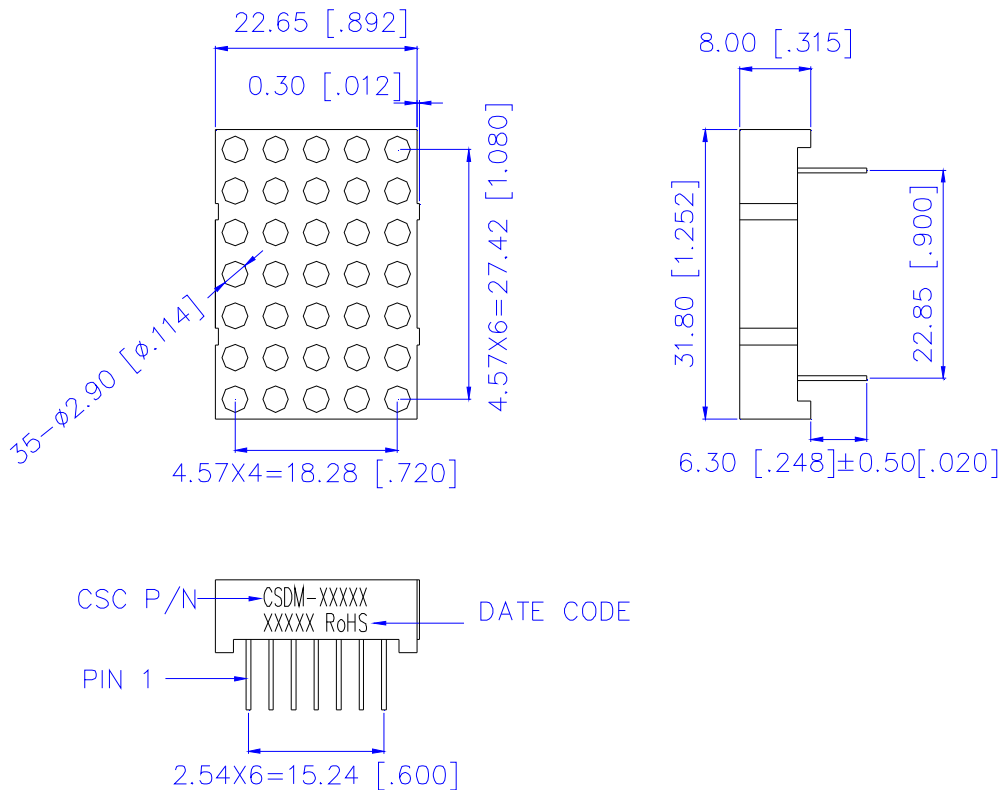
Features -

1. 1.2 inch (30.32mm) 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-57100V	AlGaInP	Super Bright Orange	Cathode	Anode

Mechanical Dimensions -



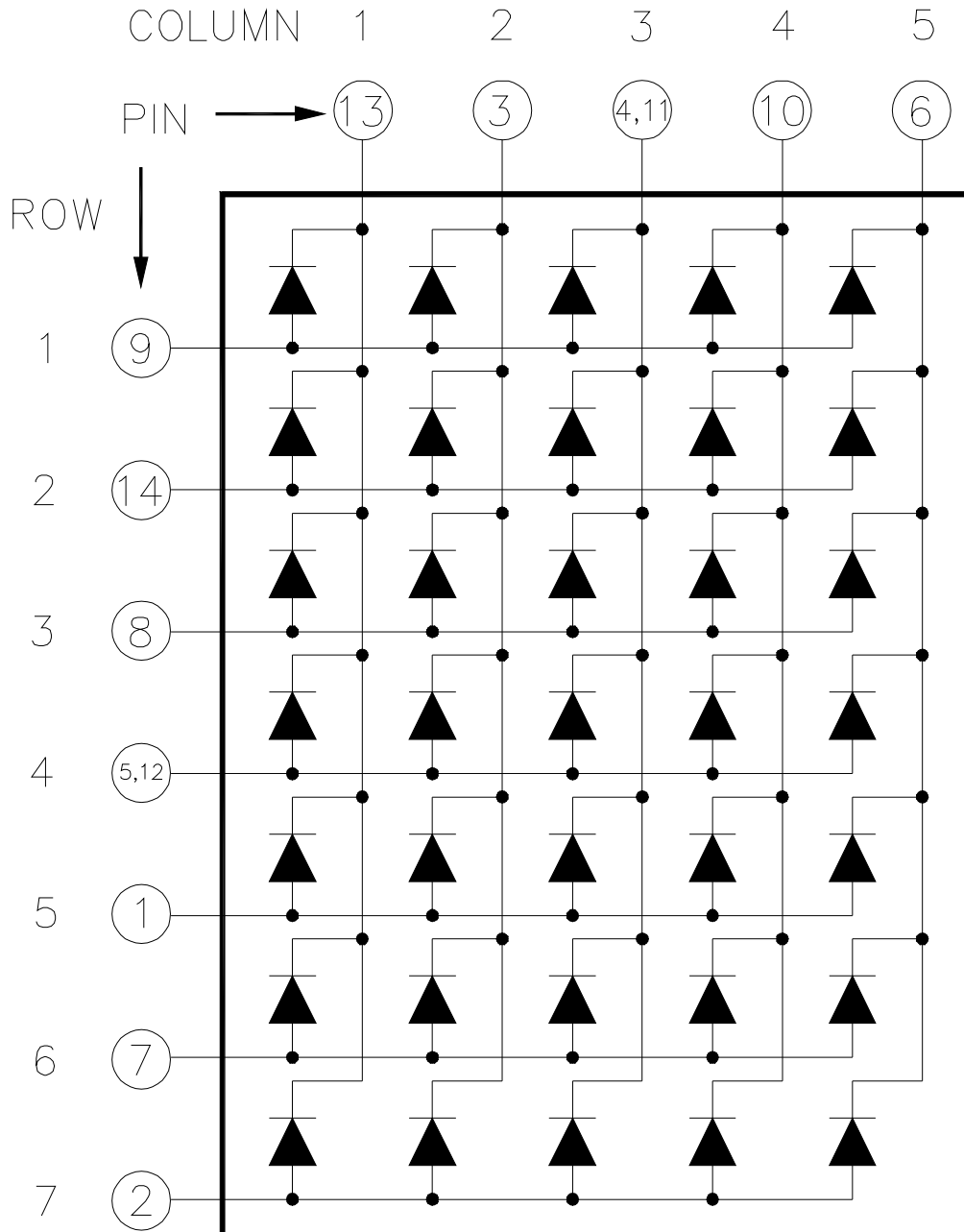
Notes:

1. All pins are ø0.50[.020]
2. Dimension in millimeter [inch], and tolerance is ±0.25[.010] unless otherwise noted.
3. Bending ≤ 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 _{AD}	70	mW
Continuous Forward Current Per Dice	I _{AF}	25	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	I _{PF}	90	mA
Derating Linear From 25°C Per Dice	-	0.33	mA/°C
Reverse Voltage Per Dice	V _R	5	V
Operating Temp.	T _{opr}	-35 ~ +85	°C
Storage Temp.	T _{stg}	-35 ~ +85	°C

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Dot	V _F	-	2	2.8	V	I _F =20mA
Luminous Intensity Per Dot	I _v	14	40	-	mcd	I _F =10mA
Peak Emission Wavelength	λ _p	-	632	-	nm	I _F =20mA
Dominant Wavelength	λ _d	-	624	-	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	-	20	-	nm	I _F =20mA
Reverse Current	I _R	-	-	100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _{V-m}	-	-	2:1	-	80mA 1/16Duty



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■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

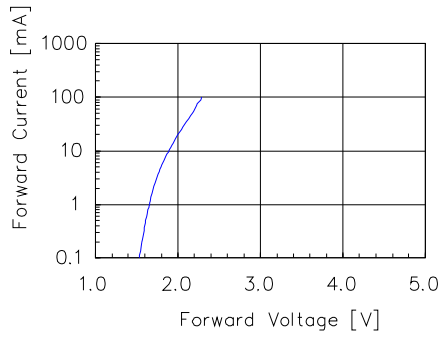


Fig 1. Forward Current vs. Forward Voltage

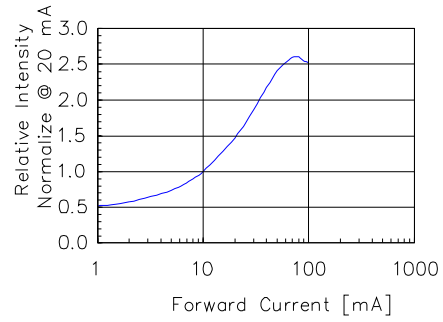


Fig 2. Relative Intensity vs. Forward Current

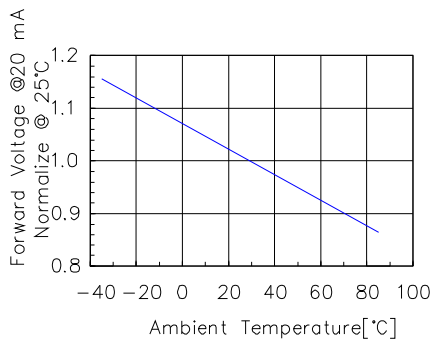


Fig 3. Forward Voltage vs. Temperature

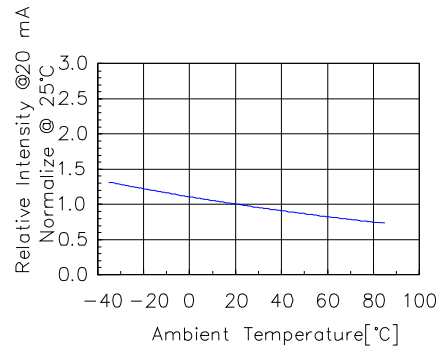


Fig 4. Relative Intensity vs. Temperature

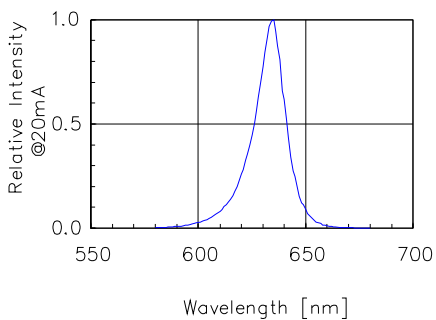


Fig 5. Relative Intensity vs. Wavelength

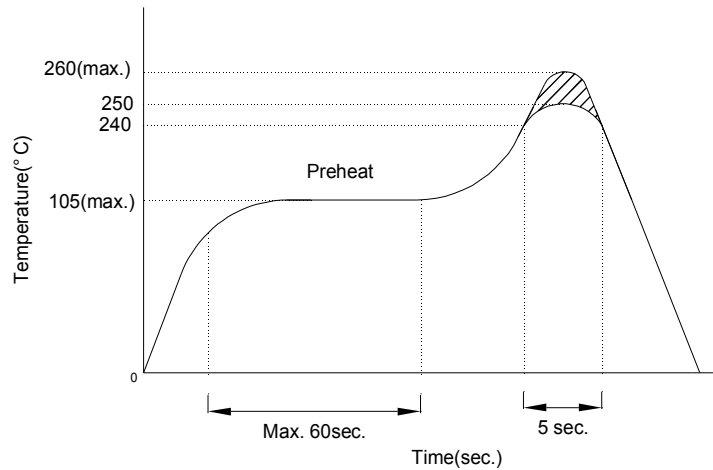


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■ Precautions For Use -

1. Recommended Soldering conditions

Wave Soldering



2. Soldering Iron

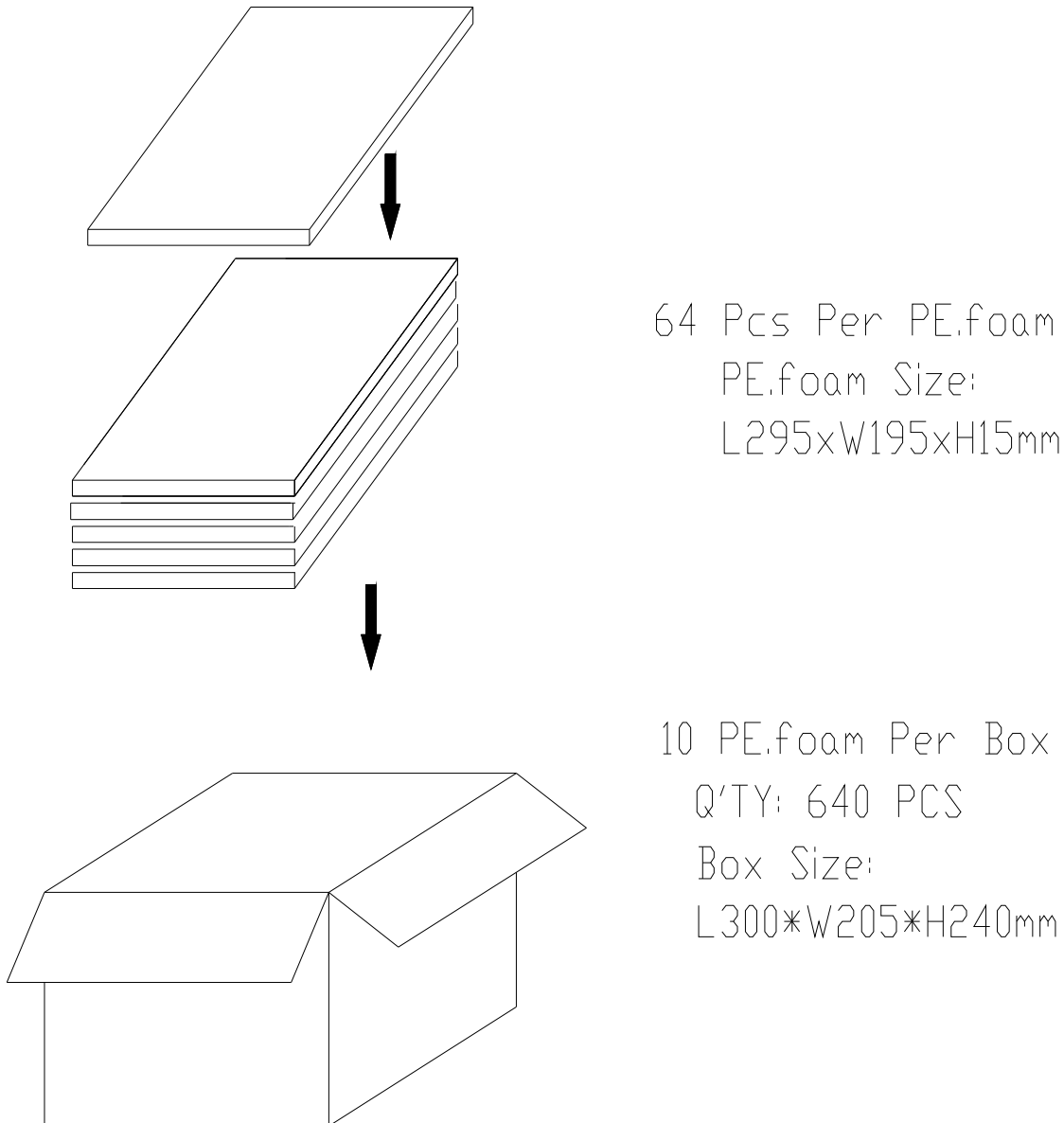
Basic SPEC. is ≤ 5 sec. When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1$ sec.). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C .



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■ Package Dimensions



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