



PRODUCT SPECIFICATION

Model No : CSM-57312V9/CSM-57322V9

Descriptions:
<ul style="list-style-type: none"> • 3.0Inch Dot-Matrix Display • Dot Pitch 11.43mm • 5*7 Array with X-Y Select. • CSM-57312: Column Anode, Row Cathode • CSM-57322: Column Cathode, Row Anode • Emitting Color: Super-Bright Orange



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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Spec. No.	PS-ND-0710
Rev.	A

Model No : CSM-57312V9/CSM-57322V9

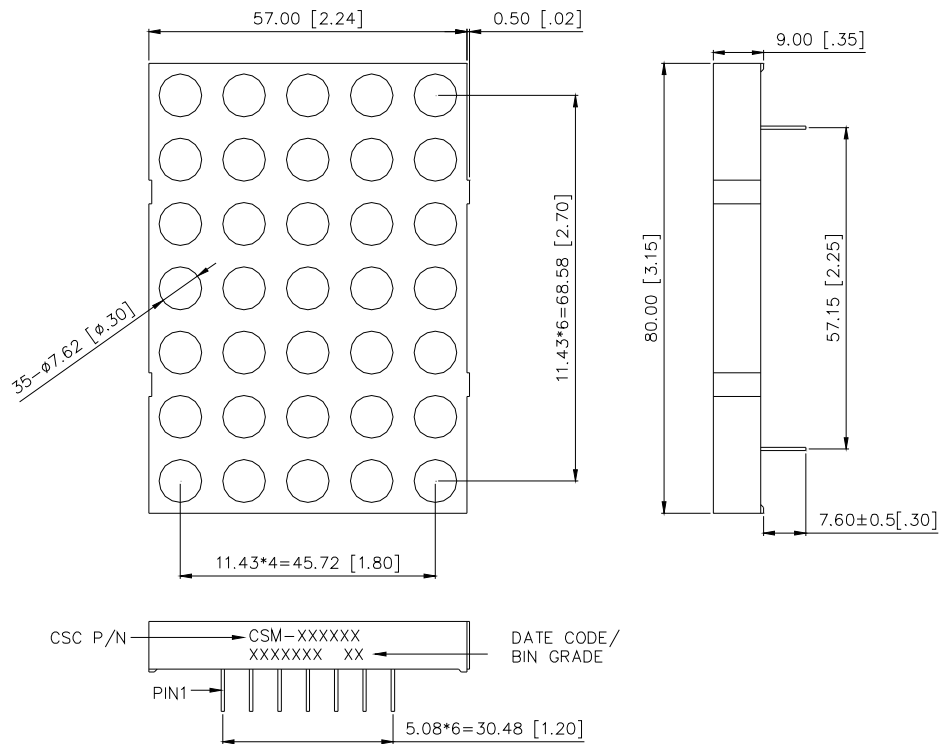
Features -

1. 3.0 inch (76.2mm) Matrix 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	Column	Row
CSM-57312V9	AlGaInP	Super-Bright Orange	Anode	Cathode
CSM-57322V9			Cathode	Anode

Package Dimensions -



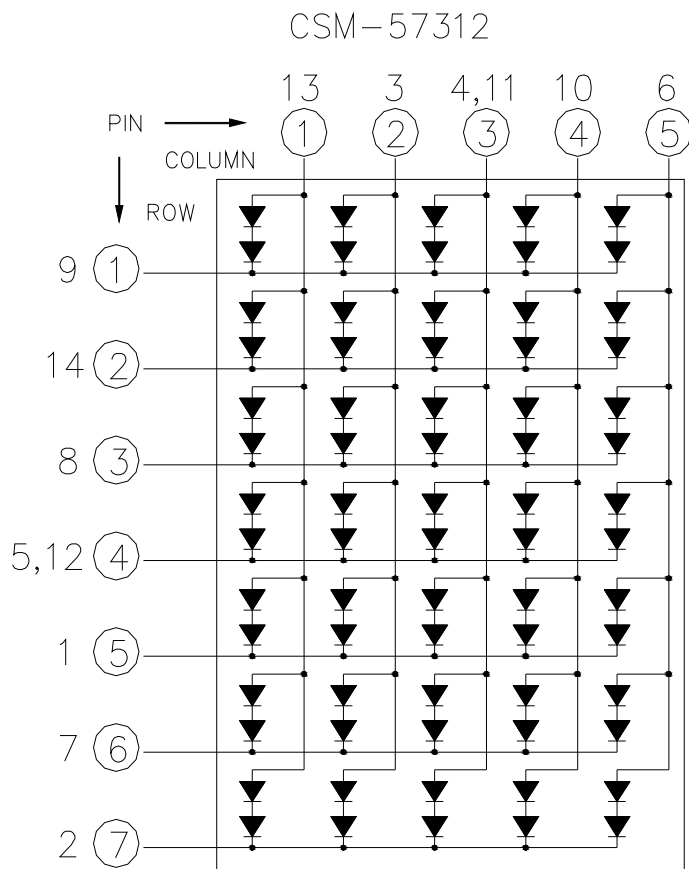
NOTE:

- 1 All pins are ϕ 0.6(.02).
- 2 All dimensions are in millimeters (inch), tolerance is \pm 0.25 (.01) unless otherwise noted.



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Internal Circuit Diagrams -



CSM-57312		CSM-57312		CSM-57322		CSM-57322	
PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode Row 5	8	Cathode Row 3	1	Anode Row 5	8	Anode Row 3
2	Cathode Row 7	9	Cathode Row 1	2	Anode Row 7	9	Anode Row 1
3	Anode Column 2	10	Anode Column 4	3	Cathode Column 2	10	Cathode Column 4
4	Anode Column 3	11	Anode Column 3	4	Cathode Column 3	11	Cathode Column 3
5	Cathode Row 4	12	Cathode Row 4	5	Anode Row 4	12	Anode Row 4
6	Anode Column 5	13	Anode Column 1	6	Cathode Column 5	13	Cathode Column 1
7	Cathode Row 6	14	Cathode Row 2	7	Anode Row 6	14	Anode Row 2



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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
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	4.0(2.0)	5.6(2.8)	V	I _F =20mA
Luminous Intensity Per Segment	I_v	-	60	-	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	-	I _p =80mA 1/16Duty



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■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

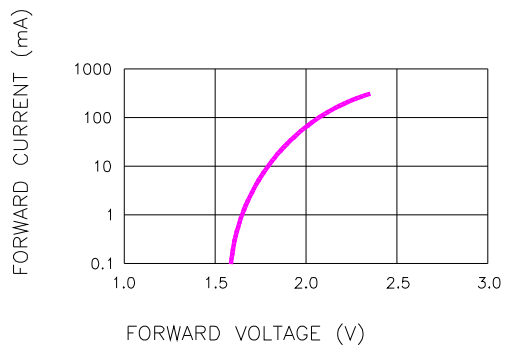


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

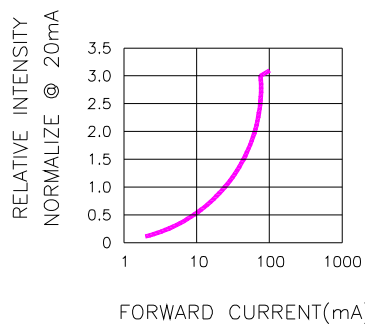


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

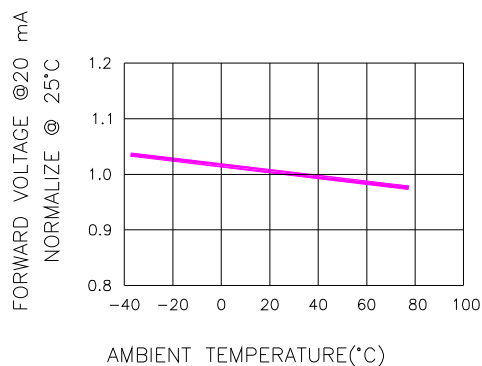


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

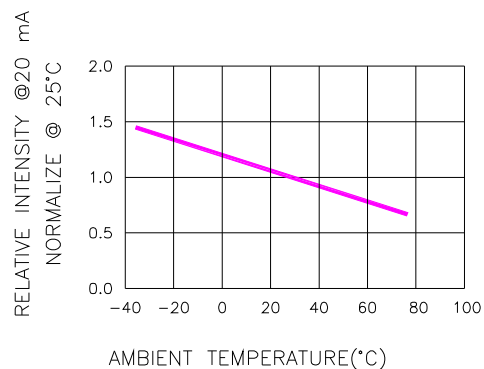


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

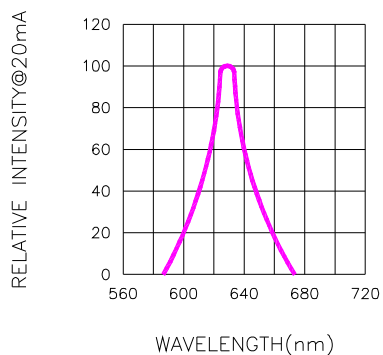


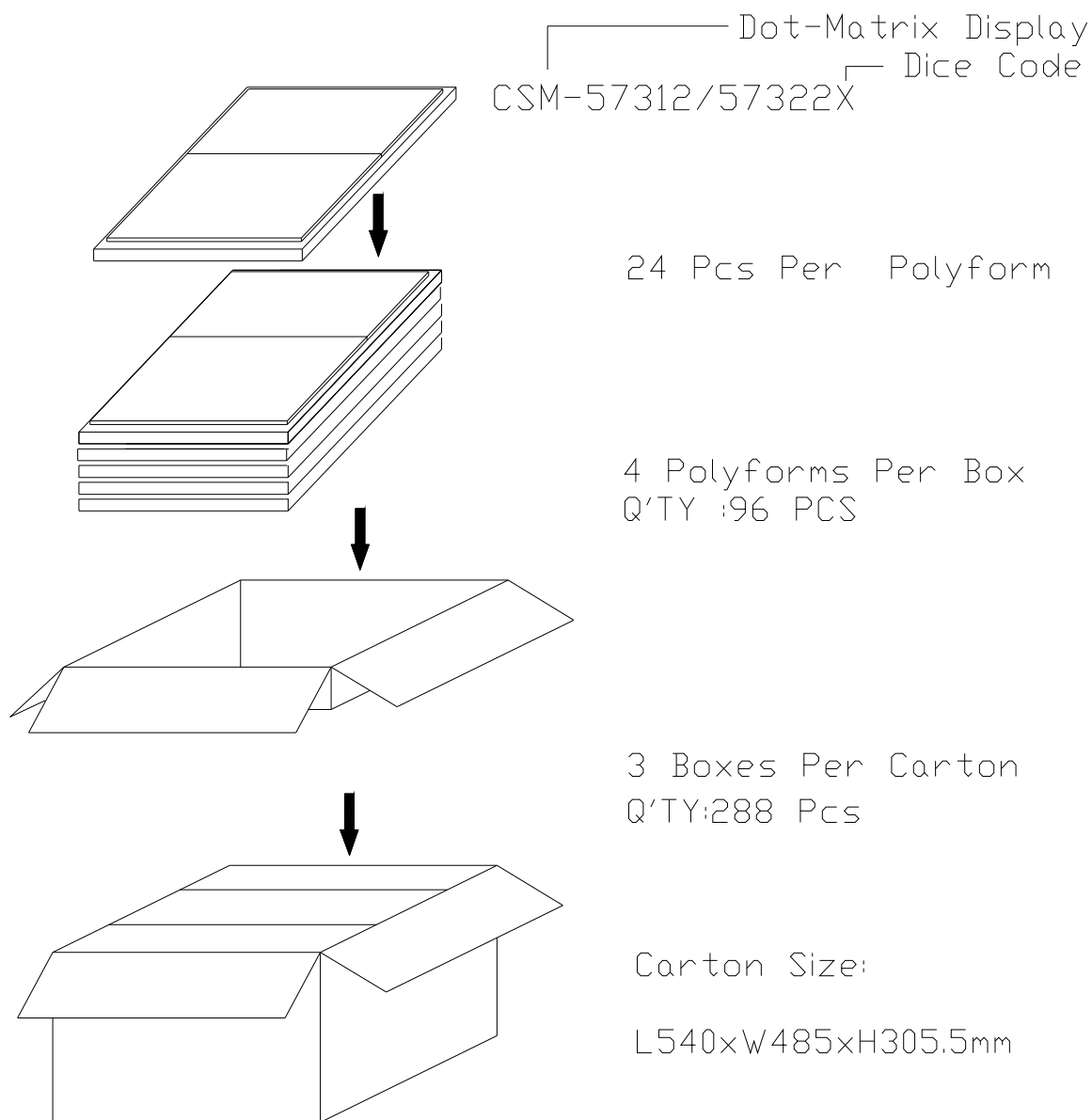
Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



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■ Package Dimensions



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