



PRODUCT SPECIFICATION

Model No : CSM-57031V9/CSM-57041V9

Descriptions:

- 0.7Inch Dot-Matrix Display
- 5*7 Array with X-Y Select.
- CSM-57031: Column Anode, Row Cathode
- CSM-57041: Column Cathode, Row Anode
- Emitting Color: Super-Bright Orange



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

CHINA SEMICONDUCTOR CORPORATION

Address:2FL. NO.909,Chung-Cheng Road,
Chung-Ho City Taipei Hsien,Taiwan.

Tel:886-2-2223-9696

Fax:886-2-2223-9377

OPTO PLUS TECHNOLOGIES CO.,LTD

Address:696 Shun jiang Rd.,Ji Shan St.Shaoxing,
ZheJiang,China

Tel:86-0575-88623888

Fax:86-0575-88623112



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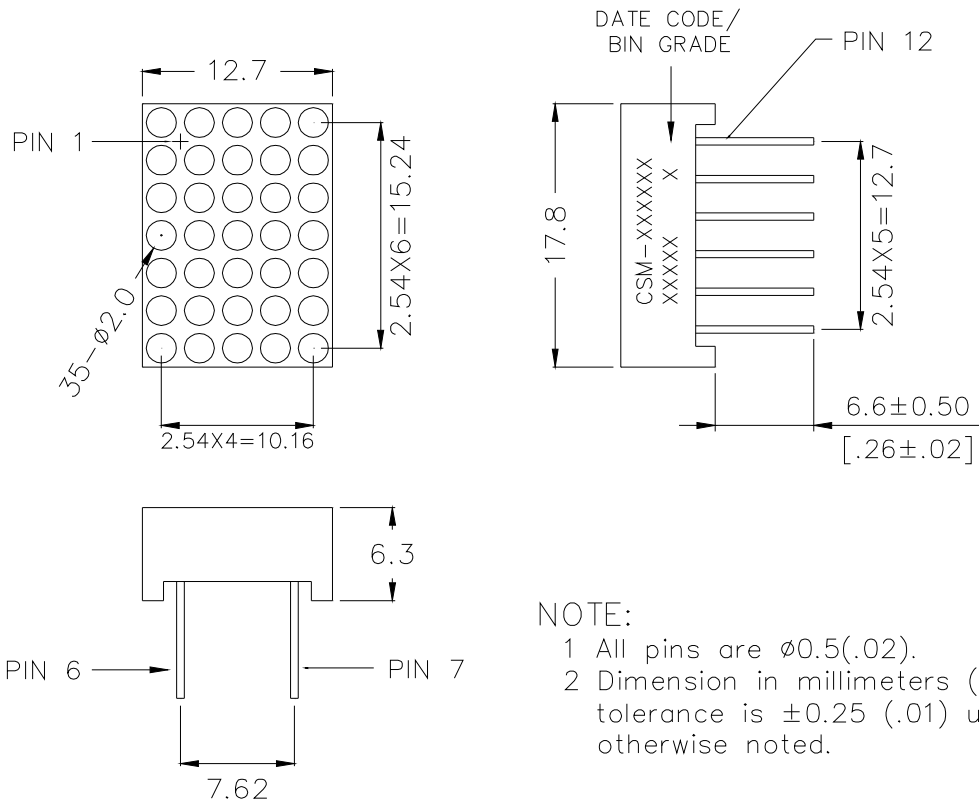
■ **Features -**

1. 0.7 inch (17.2mm) 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-57031V9	AlGaInP	Super-Bright Orange	Anode	Cathode
CSM-57041V9			Cathode	Anode

■ **Package Dimensions -**

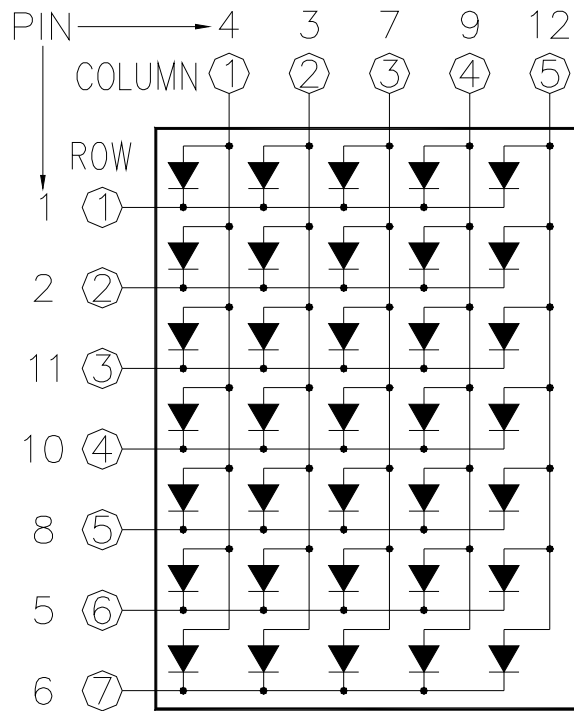




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Internal Circuit Diagrams -

CSM-57031



CSM-57031				CSM-57041			
PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode Row 1	7	Anode Column 3	1	Anode Row 1	7	Cathode Column 3
2	Cathode Row 2	8	Cathode Row 5	2	Anode Row 2	8	Anode Row 5
3	Anode Column 2	9	Anode Column 4	3	Cathode Column 2	9	Cathode Column 4
4	Anode Column 1	10	Cathode Row 4	4	Cathode Column 1	10	Anode Row 4
5	Cathode Row 6	11	Cathode Row 3	5	Anode Row 6	11	Anode Row 3
6	Cathode Row 7	12	Anode Column 5	6	Anode Row 7	12	Cathode Column 5



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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 Dot	V _F	-	2.1	2.8	V	I _F =20mA
Luminous Intensity Per Dot	I _v	-	20	-	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	Δ λ	-	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)

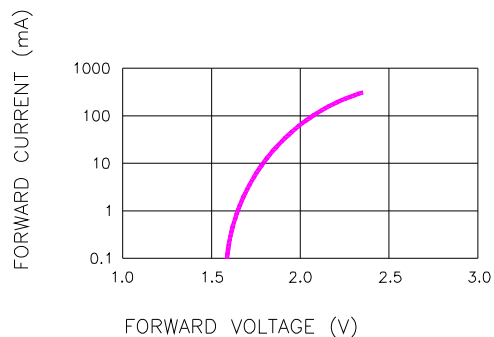


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

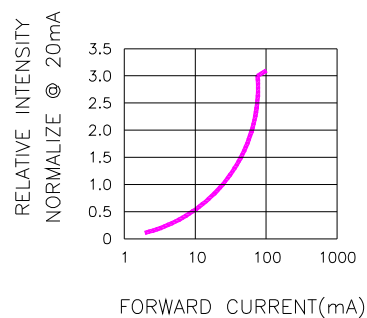


Fig.2 RELATIVE INTENSITY
VS. FORWARD CURRENT

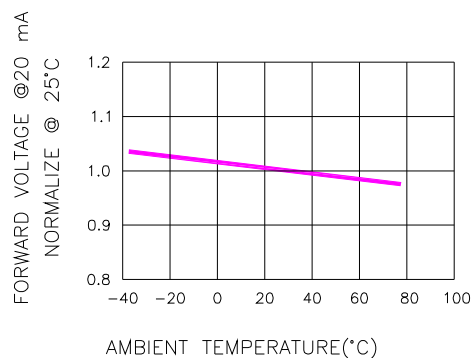


Fig.3 FORWARD VOLTAGE
VS. TEMPERATURE

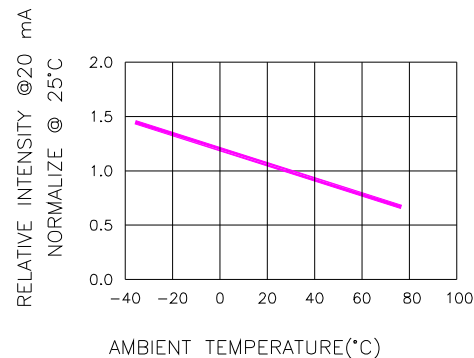


Fig.4 RELATIVE INTENSITY
VS. TEMPERATURE

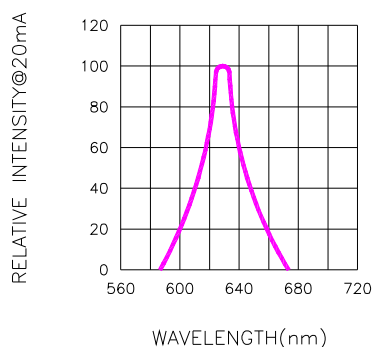
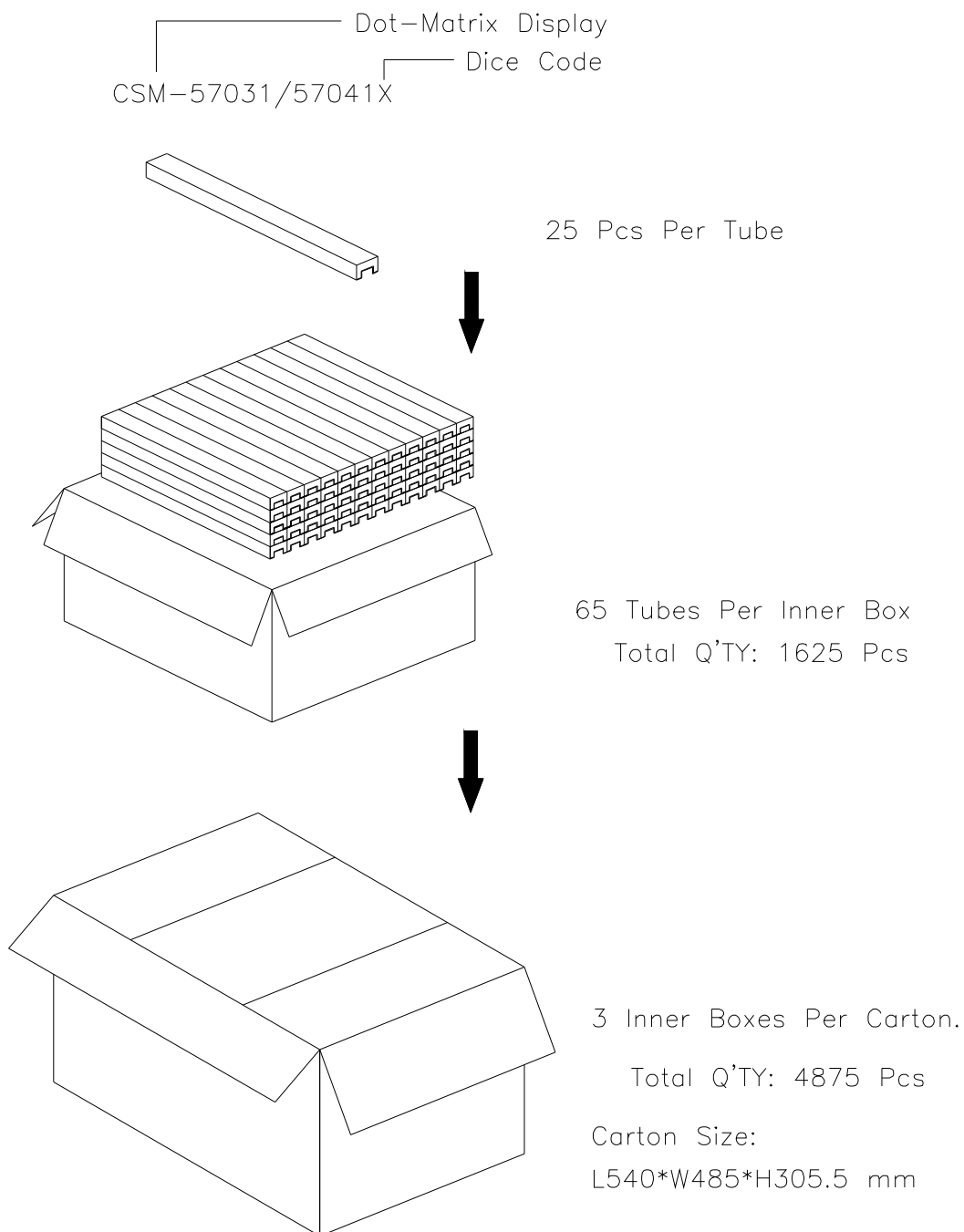


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



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■ Package Dimensions



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