



PRODUCT SPECIFICATION

Model No : CSM-57131T9/CSM-57141T9

Descriptions:
<ul style="list-style-type: none"> • 1.2Inch Dot-Matrix Display • 5*7 Array with X-Y Select. • CSM-57131: Column Anode, Row Cathode • CSM-57141: Column Cathode, Row Anode • Emitting Color: Super-Bright Yellow



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



Model No : CSM-57131T9/CSM-57141T9

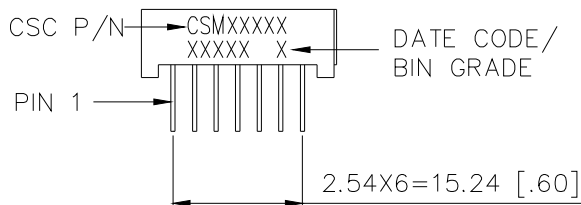
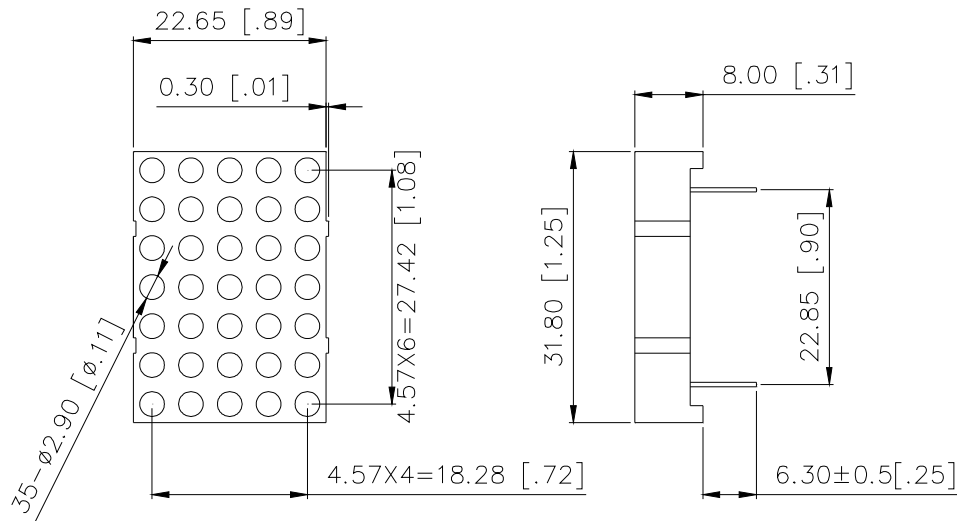
■ Features -

1. 1.2 inch (30.3mm) 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-57131T9	AlGaInP	Super-Bright Yellow	Anode	Cathode
CSM-57141T9			Cathode	Anode

■ Package Dimensions -



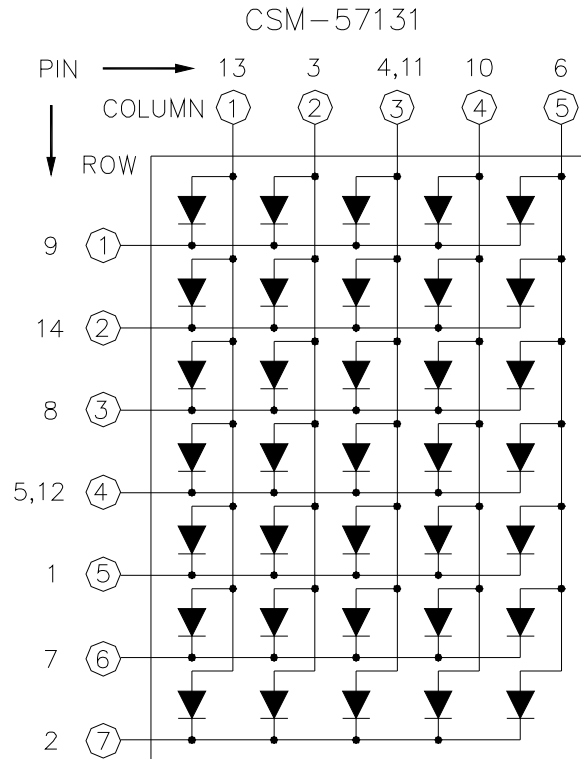
NOTE:

- 1 All pins are $\phi 0.5(.02)$.
- 2 Dimension in millimeters (inch), tolerance is $\pm 0.25 (.01)$ unless otherwise noted.



Model No : CSM-57131T9/CSM-57141T9

Internal Circuit Diagrams -



CSM-57131		CSM-57141	
PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode Row 5	8	Cathode Row 3
2	Cathode Row 7	9	Cathode Row 1
3	Anode Column 2	10	Anode Column 4
4	Anode Column 3	11	Anode Column 3
5	Cathode Row 4	12	Cathode Row 4
6	Anode Column 5	13	Anode Column 1
7	Cathode Row 6	14	Cathode Row 2



Model No : CSM-57131T9/CSM-57141T9

■ 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	-	2.1	2.8	V	I _F =20mA
Luminous Intensity Per Segment	I _v	-	20	-	mcd	I _F =10mA
Peak Emission Wavelength	λ _p	-	592	-	nm	I _F =20mA
Dominant Wavelength	λ _d	-	590	-	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



Model No: CSM-57131T9/CSM-57141T9

■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

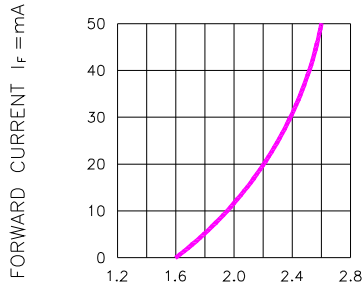


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

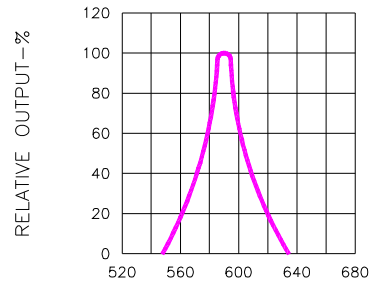


Fig.2 SPECTRAL RESPONSE

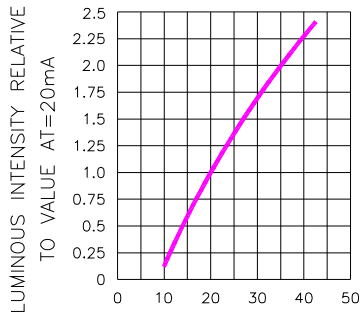


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

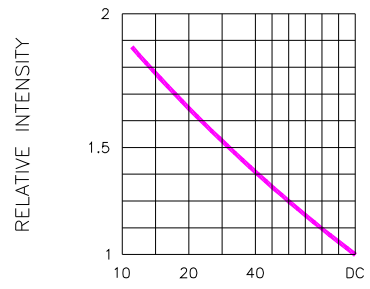


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

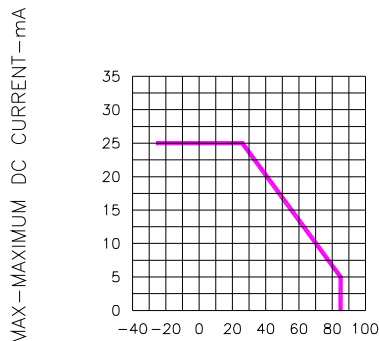


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

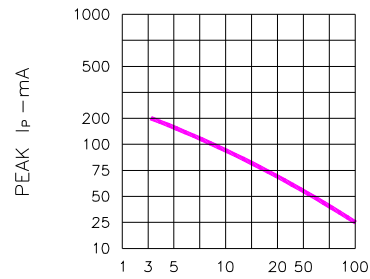


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)

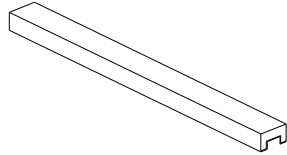


Spec. No.	PS-ND-0710
Rev.	A

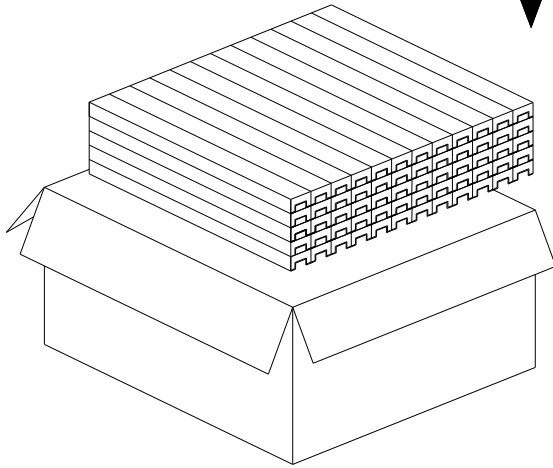
Model No: CSM-57131T9/CSM-57141T9

■ Package Dimensions

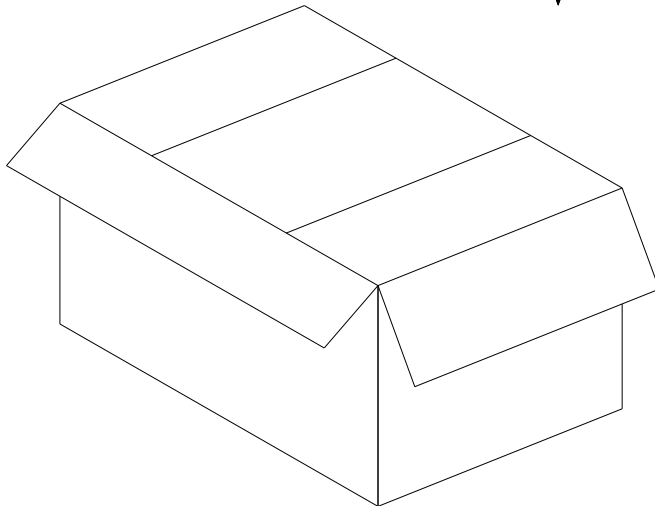
CSM-57131/57141X
Dot-Matrix Display
Dice Code



22 Pcs Per Tube



42 Tubes Per Inner Box
Total Q'TY: 924 Pcs



3 Inner Boxes Per Carton.

Total Q'TY: 2772 Pcs

Carton Size:

L540*W485*H305.5 mm

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