

PRODUCT SPECIFICATION

Model No.: CSDM-57105D-11

Descriptions:
<ul style="list-style-type: none"> ■ 1.16 Inch Dot-Matrix Display ■ 5*7 Array with X-Y Select. ■ Column Anode, Row Cathode ■ Emitting Color: Super Bright Red ■ Gray Face ■ White Dot



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY
	张银旭	杨立春	袁 英 _{5/16/2011}

CS BRIGHT CORPORATION
 Address: 16F-5, 738 Chung-Cheng Road,
 Chung-Ho District, New Taipei City 235, Taiwan
 Tel: 886-2-8226-1312
 Fax: 886-2-8226-9367

OPTO PLUS TECHNOLOGIES CO.,LTD
 Address: 696 Shun jiang Rd., Shaoxing,
 ZheJiang, China.
 Tel :86-575-88623888
 Fax:86-575-88623112

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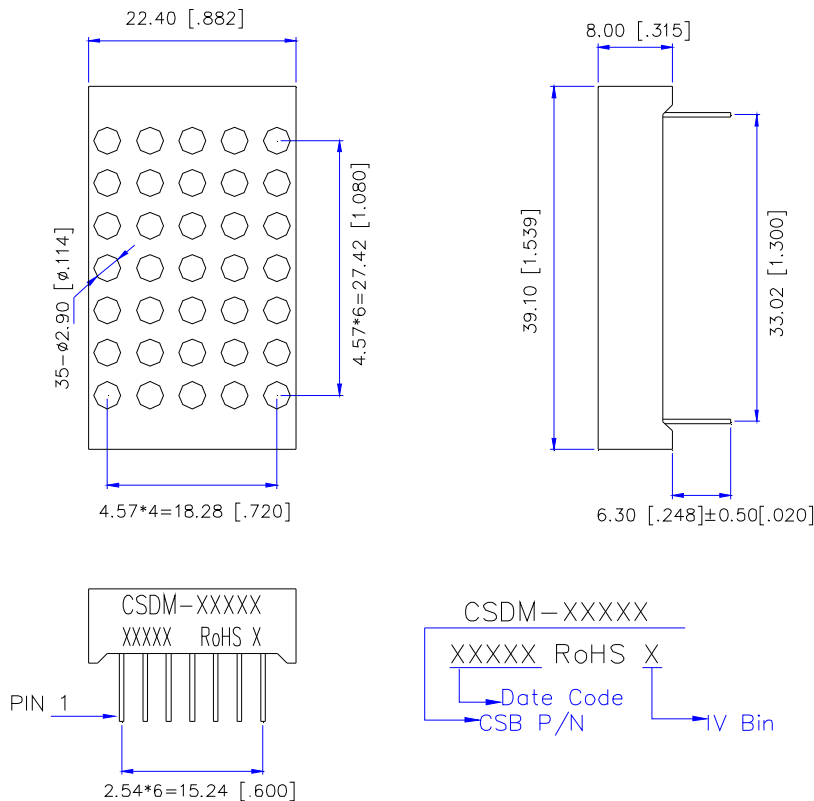
Features -

1. 1.16 inch (29.42mm) 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 -

Model No.	Chip		Description	
	Material	Emitting Color	Column	Row
CSDM-57105D-11	AlGaAs	Super Bright Red	Anode	Cathode

Mechanical Dimensions -

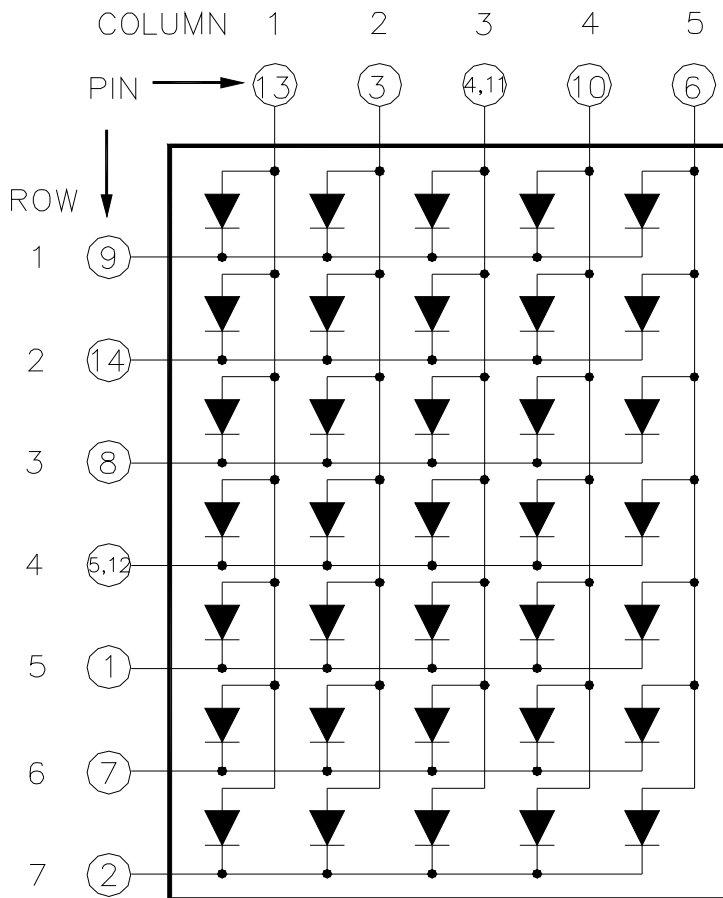
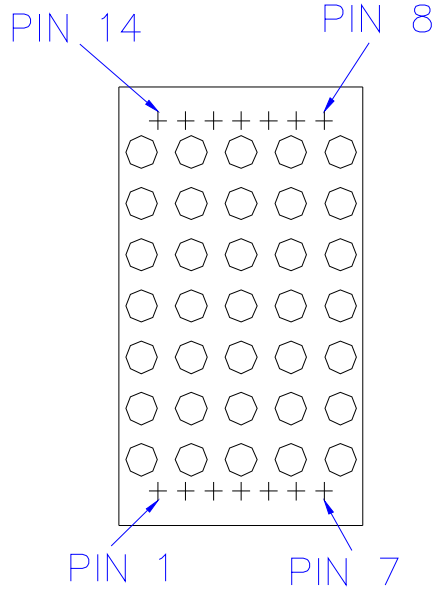


Notes:

1. All pins are $\Phi 0.51$ [.020]
2. Dimension in millimeter [inch], tolerance is ± 0.25 [.010] and angle is $\pm 1^\circ$ unless otherwise noted.
3. Bending \leq Length*1%.

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■ All Light On Segments Feature & Pin Position



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■ **Absolute Maximum Rating -**

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P_{AD}	75	mW
Derating Liner from 25°C per Dice	-	0.42	mA/°C
Continuous Forward Current Per Dice	I_{AF}	30	mA
Peak Current Per Dice(duty cycle 1/10,1KHz)	I_{PF}	120	mA
Reverse Voltage Per Dice	VR	5	V
Operating Temp.	Topr	-35 ~ +85	°C
Storage Temp.	Tstg	-35 ~ +85	°C

Solder Conditions:1/16 inch below seating plane for 3 seconds at 260°C. Or temperature of unit (during assembly) not over max. temperature rating above

■ **Electro-optical Characteristics -**

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Dot	V_F	-	1.8	2.5	V	I _F =20mA
Luminous Intensity Per Dot	I_v	-	13	-	mcd	I _F =10mA
Peak Emission Wavelength	λ_p	-	660	-	nm	I _F =20mA
Dominant Wavelength	λ_d	-	644	-	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	IV-m	-	-	2:1	-	p=80mA 1/16Duty



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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

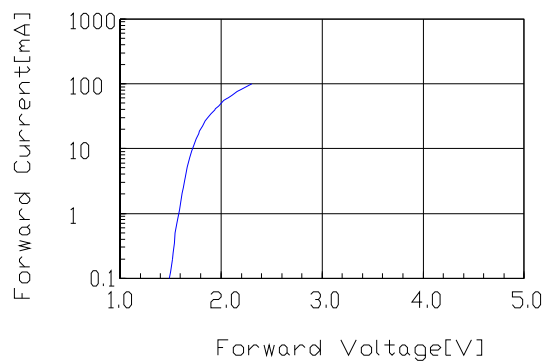


Fig 1. Forward Current vs. Forward Voltage

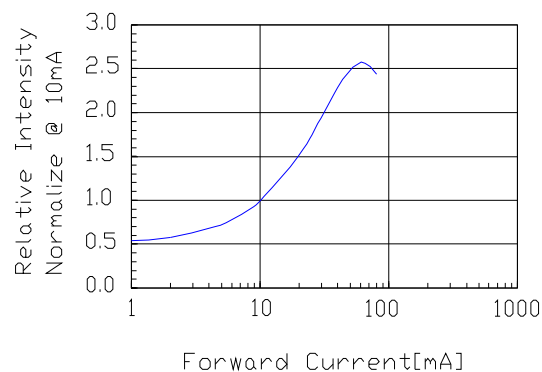


Fig 2. Relative Intensity vs. Forward Current

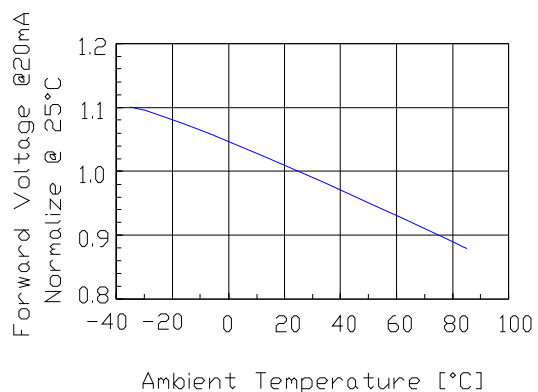


Fig 3. Forward Voltage vs. Temperature

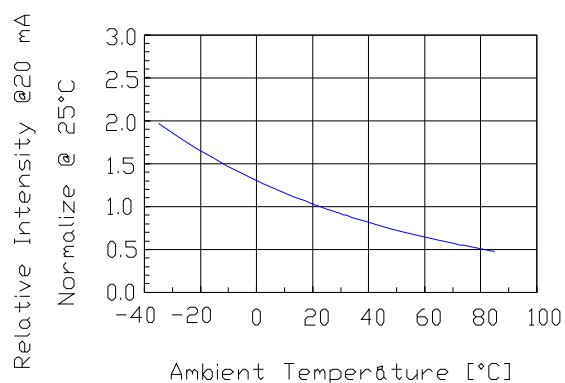


Fig 4. Relative Intensity vs. Temperature

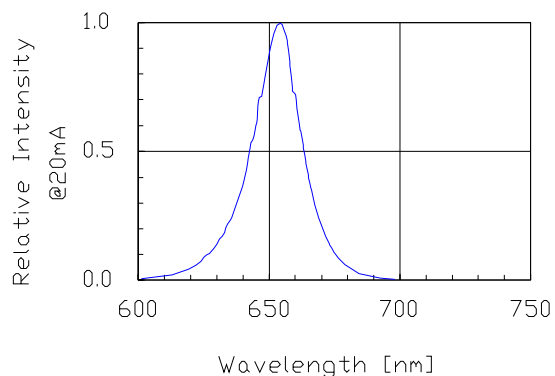


Fig 5. Relative Intensity vs. Wavelength



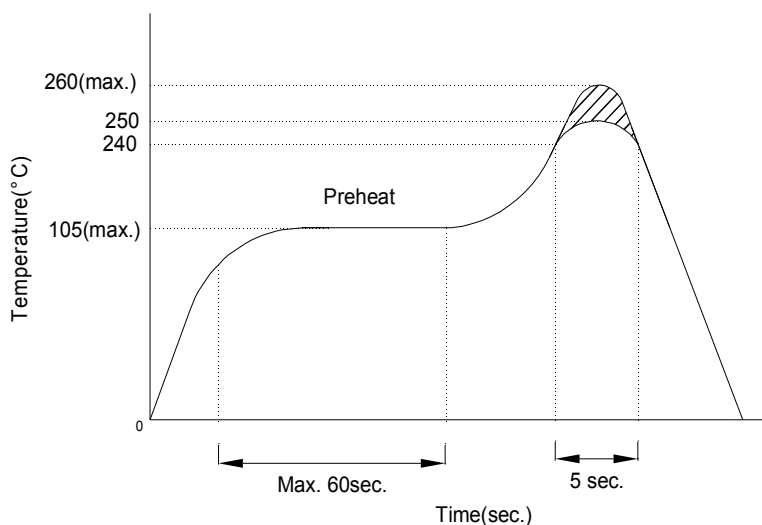
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■ Precautions For Use -

1. Recommended Soldering conditions

1.1 Wave Soldering

Basic SPEC. is $\leq 5\text{sec.}$ When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1\text{sec.}$).



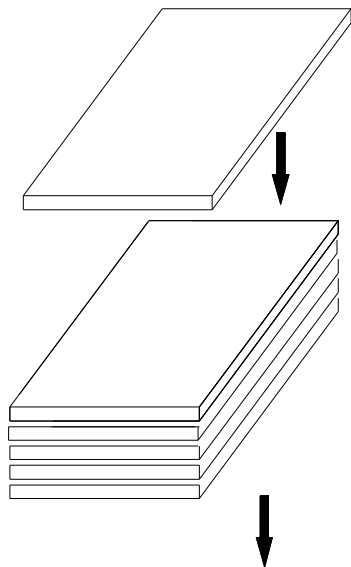
1.2 Soldering Iron

Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Soldering temperature should be under 260°C , time $\leq 3\text{sec.}$

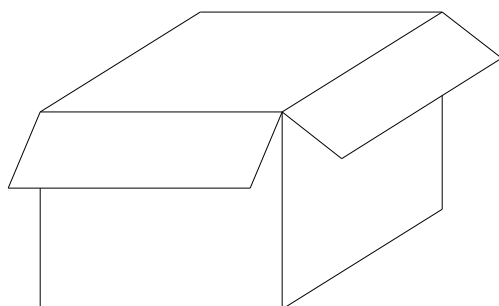


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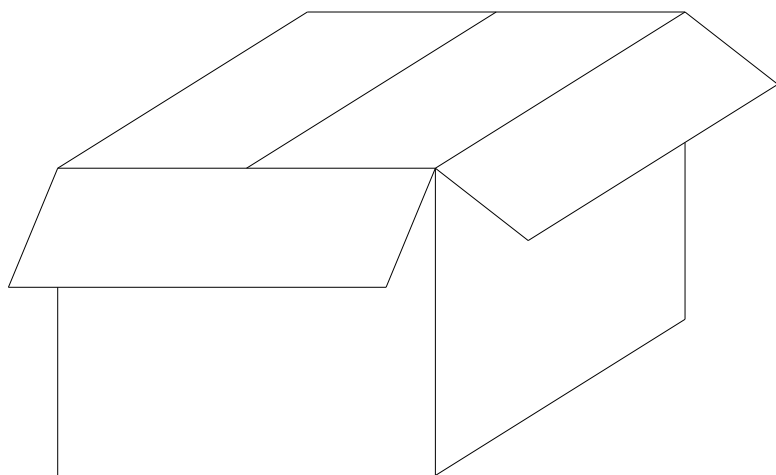
■ Package Dimensions



1 PE.foam From Box=48PCS
 PE.foam Size:
 L295xW195xH15mm



9 PE.foam Per Box
 Q'TY: 432 PCS
 Box Size:
 L300*W205*H240mm



2 Inner Boxes Per Carton.
 Total Q'TY: 864 Pcs
 Carton Size:
 L431 x W320 x H252mm



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