



## 1.20" (31.70mm) 3.00mm x 3.00mm 8\*8 Bi-Color Dot Matrix Displays

### Features:

- \*High dot intensity
- \*Wide viewing angle
- \*Bi- colors
- \*Black face White dot
- \*RoHS compliant

### Available option:

- \*Alternative face and dot color
- \*Cropped terminal pins
- \*Available emitting color
- \*Low current version

### Electro/Optical Characteristics If=20mA Ta=25°C

Part Number Row Cathode Column Anode	Part Number Row Anode Column Cathode	Emitting Color	Peak Wavelength	Forward Voltage V <sub>F</sub> /Dot		Luminous Intensity I <sub>v</sub> /Dot	
				Typ.	Max.	Min.	Typ.
NFM-12883ASG-11	NFM-12883BSG-11	GaAlAs/GaAs Hi-Red	660	1.80	2.20	8.0	12.0
		GaP/GaP Green	570	2.20	2.50	7.0	11.0
NFM-12883AEG-11	NFM-12883BEG-11	GaAsP/GaP Orange	632	2.10	2.50	8.0	12.0
		GaP/GaP Green	570	2.20	2.50	7.0	11.0
NFM-12883AUEUG-11	NFM-12883BUEUG-11	AlGaInP/GaAs Ultra Orange	632	2.00	2.50	40.0	60.0
		AlGaInP/GaAs Ultra Green	574	2.10	2.50	25.0	40.0
Units			nm	V		mcd	

### Maximum Ratings Ta=25°C (Derate above 25°C)

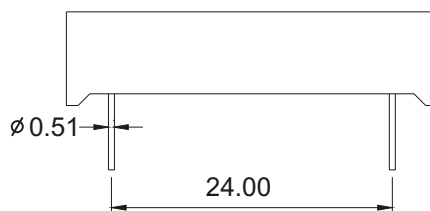
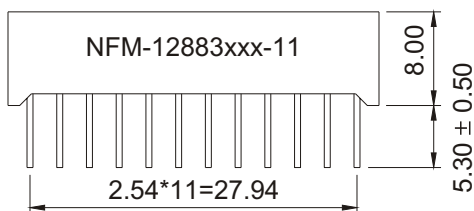
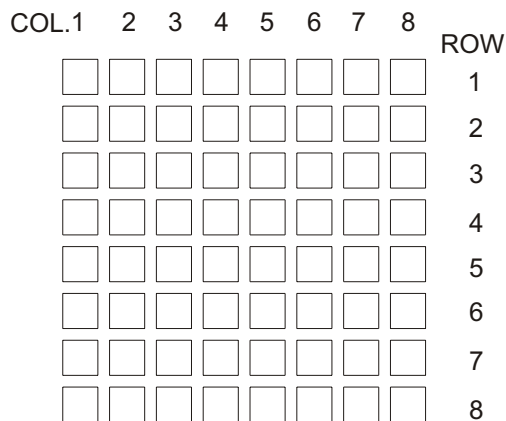
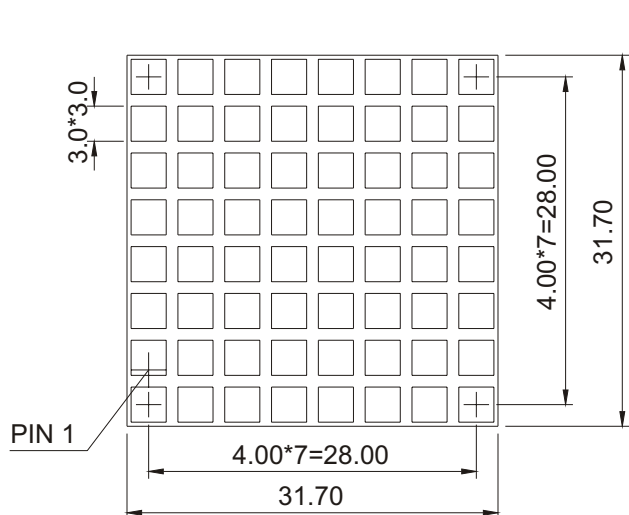
Characteristic	Test Condition	Symbol	S	G	E	UE	UG	Units
Pulse Forward Current Per Dot	1/10duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100	100	100	100	100	mA
DC Forward Current Per Dot		I <sub>F</sub>	25	30	30	30	30	mA
Reverse Current Per Dot	V <sub>R</sub> =5V	I <sub>R</sub>	10	10	10	10	10	μA
Power Dissipation		P <sub>D</sub>	60*64	80*64	80*64	65*64	75*64	mW
Operating Temperature		T <sub>OPR</sub>	-40 to +80					°C
Storage Temperature		T <sub>TSG</sub>	-40 to +85					°C
Lead soldering temperature	1.60mm from body maximum 3 seconds		260					°C

Checked	Chen N.H.	Approved	Jason Chen	Date	Mar/08/2007	PAGE 1 / 2
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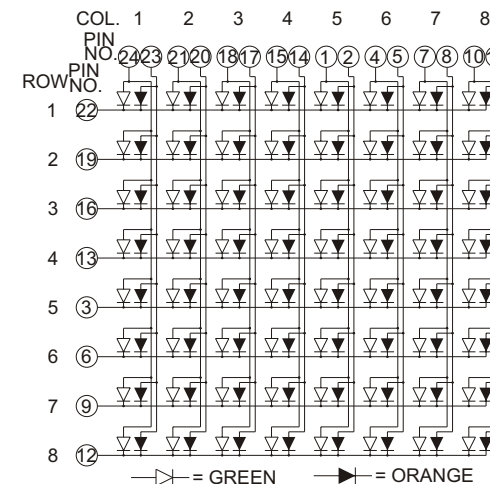
### PACKAGE DIMENSION



Tolerance  $\pm 0.25\text{mm}$  unless stated

### INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
NFM-12883Axx



Row Anode  
Column Cathode  
NFM-12883Bxx

