



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

**Features:**

- \*Ultrahigh 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-12883AUHRPG-11	NFM-12883BUHRPG-11	AlGaInP/GaAs Ultra Red	640	2.00	2.50	40.0	60.0
		InGaN Pure Green	515	3.30	3.80	70.0	150.0
Units			nm	V		mcd	

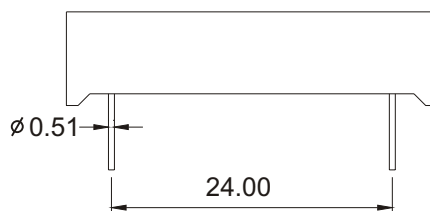
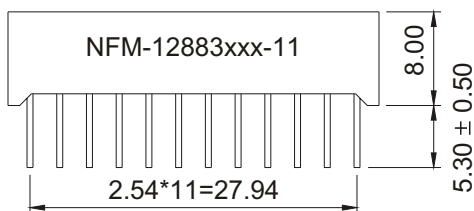
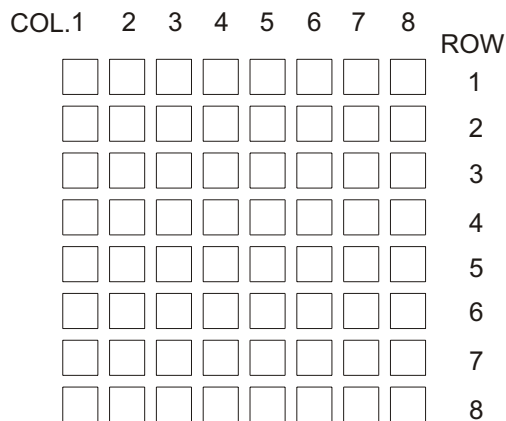
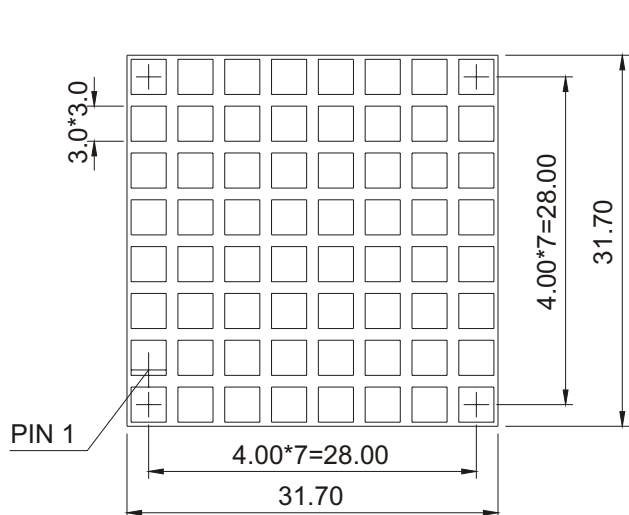
**Maximum Ratings Ta=25°C (Derate above 25°C)**

Characteristic	Test Condition	Symbol	UHR	PG				Units
Pulse Forward Current Per Dot	1/10duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100	100				mA
DC Forward Current Per Dot		I <sub>F</sub>	25	25				mA
Reverse Current Per Dot	V <sub>R</sub> =5V	I <sub>R</sub>	10	10				μA
Power Dissipation		P <sub>D</sub>	65*64	120*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



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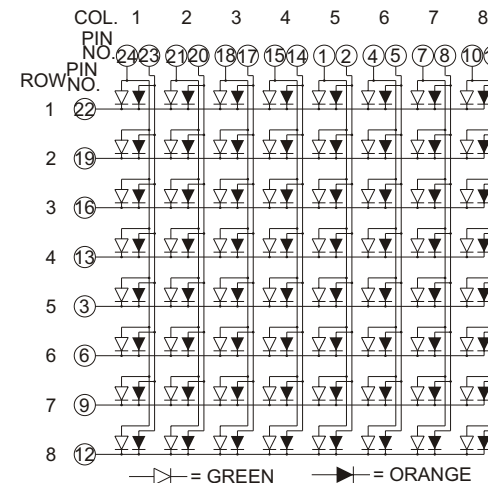
## PACKAGE DIMENSION



Tolerance ±0.25mm unless stated

## INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
NFM-12883Axx



Row Anode  
Column Cathode  
NFM-12883Bxx

