



1.20" (31.70mm) 3.00mm x 3.00mm 8*8 Single Color Dot Matrix Displays

Features:

- *High dot intensity
- *Wide viewing angle
- *Range of 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 _F /Dot		Luminous Intensity I _v /Dot	
				Typ.	Max.	Min.	Typ.
NFM-12883AH-11	NFM-12883BH-11	GaP/GaP Red	700	2.25	2.50	0.40	0.80
NFM-12883AS-11	NFM-12883BS-11	GaAlAs/GaAs SH Hi-Red	660	1.80	2.20	8.00	12.00
NFM-12883AD-11	NFM-12883BD-11	GaAlAs/GaAs DH Super Red	660	1.80	2.20	22.00	28.00
NFM-12883AE-11	NFM-12883BE-11	GaAsP/GaP Orange	632	2.10	2.50	8.00	12.00
NFM-12883AY-11	NFM-12883BY-11	GaAsP/GaP Yellow	585	2.10	2.50	4.00	7.00
NFM-12883AG-11	NFM-12883BG-11	GaP/GaP Green	568	2.20	2.50	7.00	11.00
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	H	S	D	E	Y	G	Units
Pulse Forward Current Per Dot	1/10duty cycle 0.1ms Pulse width	I _{FP}	50	100	100	100	100	100	mA
DC Forward Current Per Dot		I _F	15	25	25	30	30	30	mA
Reverse Current Per Dot	V _R =5V	I _R	10	10	10	10	10	10	μA
Power Dissipation		P _D	40*64	60*64	60*64	80*64	80*64	80*64	mW
Operating Temperature		T _{OPR}	-40 to +80						°C
Storage Temperature		T _{TSG}	-40 to +85						°C
Lead soldering temperature	1.60mm from body maximum 3 seconds		260						°C

Checked

Chen N.H.

Approved

Jason Chen

Date

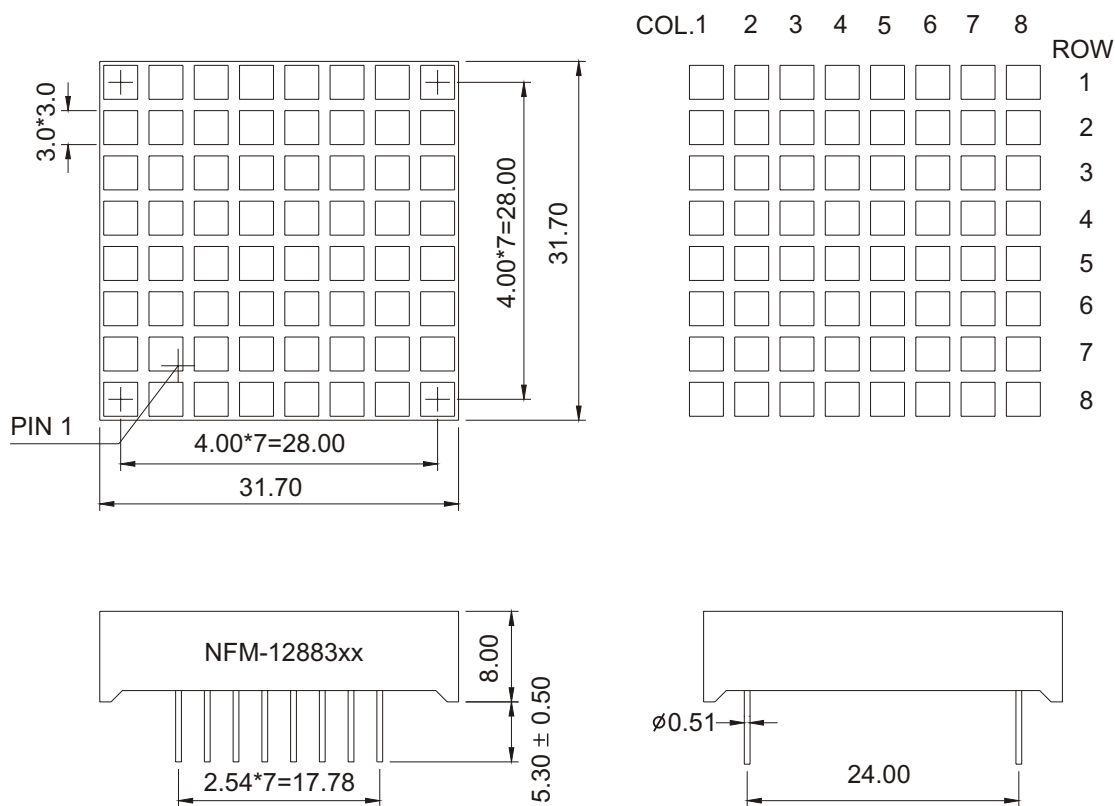
May/15/2007

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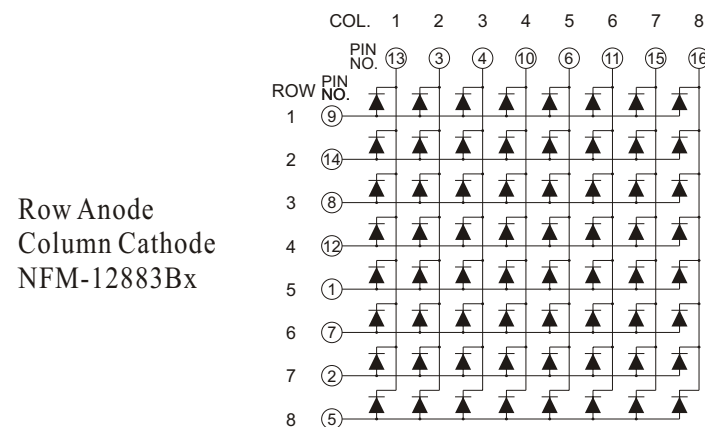
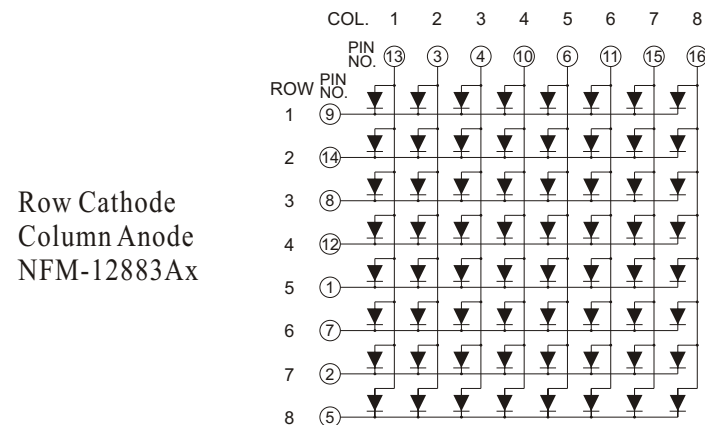


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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



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