



### 3.40" (90.70mm) $\Phi$ 7.62mm 5\*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 $I_f=20mA$ $T_a=25^\circ C$

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-34581AS-11	NFM-34581BS-11	GaAlAs/GaAs SH Hi-Red	660	3.60	4.40	16.00	24.00
NFM-34581AD-11	NFM-34581BD-11	GaAlAs/GaAs DH Super Red	660	3.60	4.40	44.00	56.00
NFM-34581AE-11	NFM-34581BE-11	GaAsP/GaP Orange	632	4.20	5.00	16.00	24.00
NFM-34581AY-11	NFM-34581BY-11	GaAsP/GaP Yellow	585	4.20	5.00	8.00	14.00
NFM-34581AG-11	NFM-34581BG-11	GaP/GaP Green	568	4.40	5.00	14.00	22.00
Units			nm	V		mcd	

#### Maximum Ratings $T_a=25^\circ C$ (Derate above $25^\circ C$ )

Characteristic	Test Condition	Symbol	S	D	E	Y	G	Units
Pulse Forward Current Per Dot	1/10 duty cycle 0.1ms Pulse width	$I_{FP}$	100	100	100	100	100	mA
DC Forward Current Per Dot		$I_F$	25	25	30	30	30	mA
Reverse Current Per Dot	$V_R=10V$	$I_R$	10	10	10	10	10	$\mu A$
Power Dissipation		$P_D$	60*80	60*80	80*80	80*80	80*80	mW
Operating Temperature		$T_{OPR}$	-40 to +80					$^\circ C$
Storage Temperature		$T_{TSG}$	-40 to +85					$^\circ C$
Lead soldering temperature	1.60mm from body maximum 3 seconds		260					$^\circ C$

Checked

Chen N.H.

Approved

Jason Chen

Date

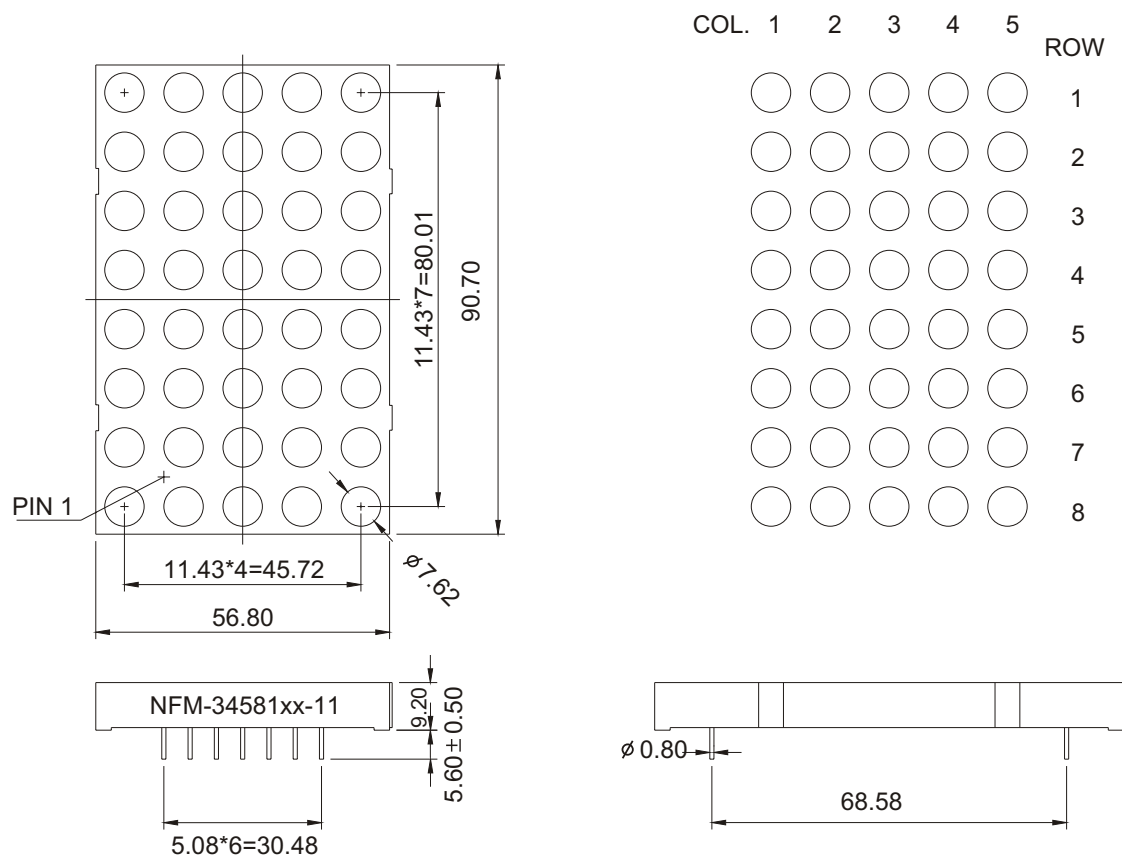
Mar/10/2007

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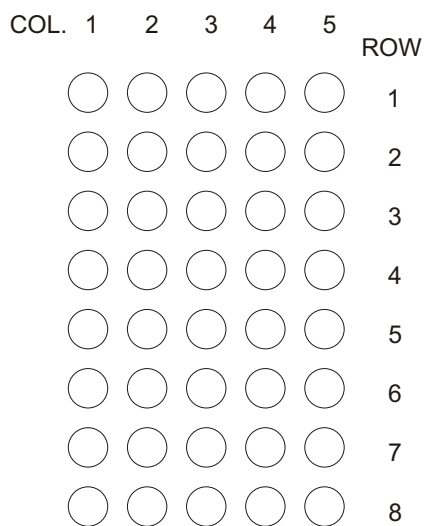


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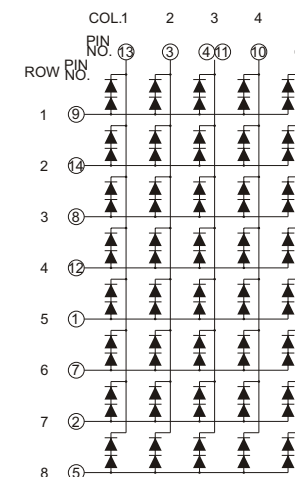
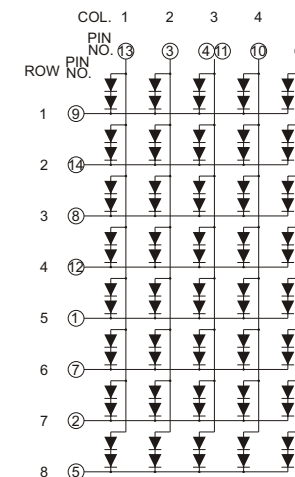
#### PACKAGE DIMENSION



#### INTERNAL CIRCUIT DIAGRAM



Row Cathode  
Column Anode  
NFM-34581Ax



Row Anode  
Column Cathode  
NFM-34581Bx

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