



### 4.00" (106.50mm) $\Phi$ 10.00mm 5\*7 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-40571AS-11	NFM-40571BS-11	GaAlAs/GaAs SH Hi-Red	660	3.60	4.40	16.00	24.00
NFM-40571AD-11	NFM-40571BD-11	GaAlAs/GaAs DH Super Red	660	3.60	4.40	44.00	56.00
NFM-40571AE-11	NFM-40571BE-11	GaAsP/GaP Orange	632	4.20	5.00	16.00	24.00
NFM-40571AY-11	NFM-40571BY-11	GaAsP/GaP Yellow	585	4.20	5.00	8.00	14.00
NFM-40571AG-11	NFM-40571BG-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*70	60*70	80*70	80*70	80*70	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

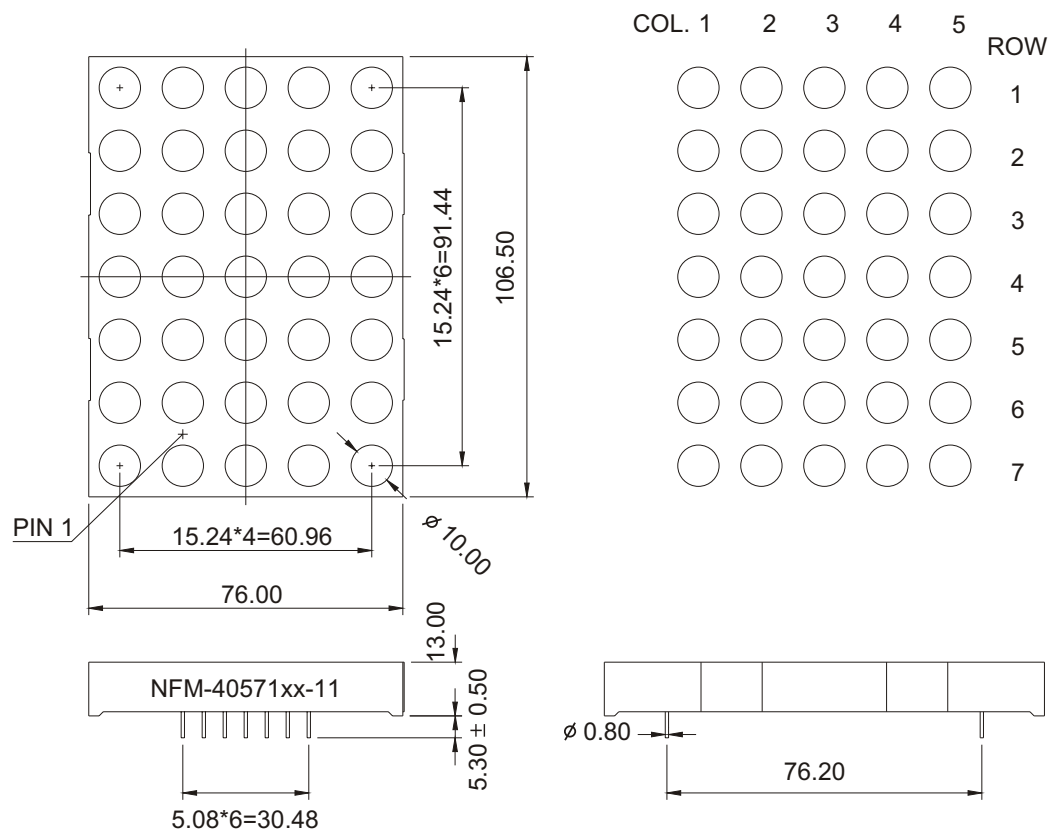
Mar/10/2007

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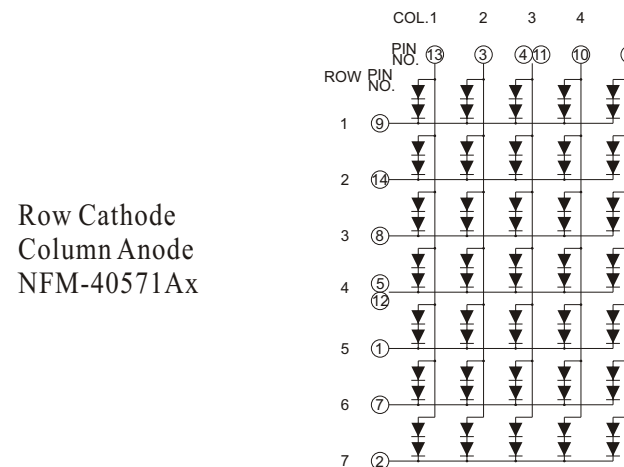
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#### PACKAGE DIMENSION

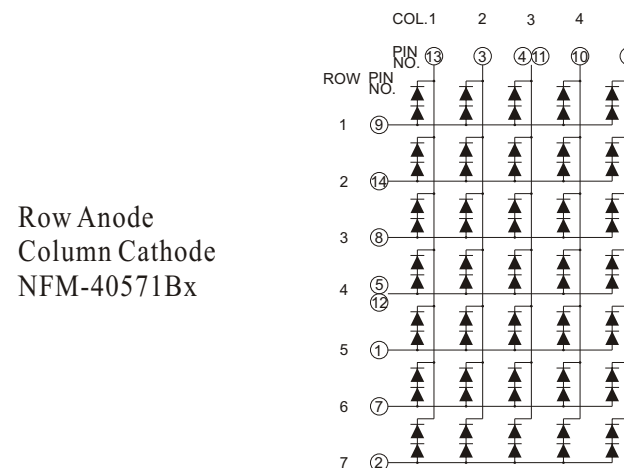


Tolerance  $\pm$ 0.25mm unless stated

#### INTERNAL CIRCUIT DIAGRAM



Row Cathode  
Column Anode  
NFM-40571Ax



Row Anode  
Column Cathode  
NFM-40571Bx