



## 2.30"(56.80mm)Single Digit Bi-Color 7 Segment Display

### Features:

- \*High segment intensity
- \*Wide viewing angle
- \*Range of colors
- \*Gray face White segment
- \*RoHS compliant

### Available option:

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

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

Part Number Common Cathode	Part Number Common Anode	Emitting Colors	Peak Wavelength	Forward Voltage V <sub>F</sub> /Seg.(DP)		Luminous Intensity I <sub>v</sub> /Seg.(DP)	
				Typ.	Max.	Min.	Typ.
NFD-23011ASG-21	NFD-23011BSG-21	GaAlAs/GaAs SH Hi-Red	660	7.20(3.60)	8.80(4.40)	32.00(16.00)	48.00(24.00)
		GaP/GaP Green	568	8.80(4.40)	10.00(5.00)	28.00(14.00)	44.00(22.00)
NFD-23011AEG-21	NFD-23011BEG-21	GaAsP/GaP Orange	632	8.40(4.20)	10.00(5.00)	32.00(16.00)	48.00(24.00)
		GaP/GaP Green	568	8.80(4.40)	10.00(5.00)	28.00(14.00)	44.00(22.00)
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	S	G	E			Units	
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100	100	100			mA	
DC Forward Current Per Seg.		I <sub>F</sub>	25	30	30			mA	
Reverse Current Per Seg.	V <sub>R</sub> =10V	I <sub>R</sub>	10	10	10			μA	
Power Dissipation		P <sub>D</sub>	60*30	80*30	80*30			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

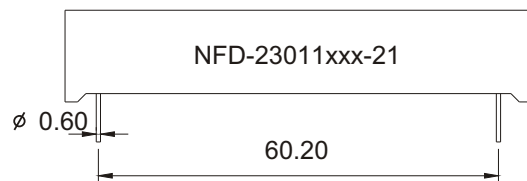
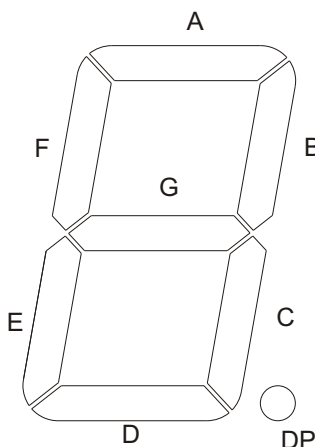
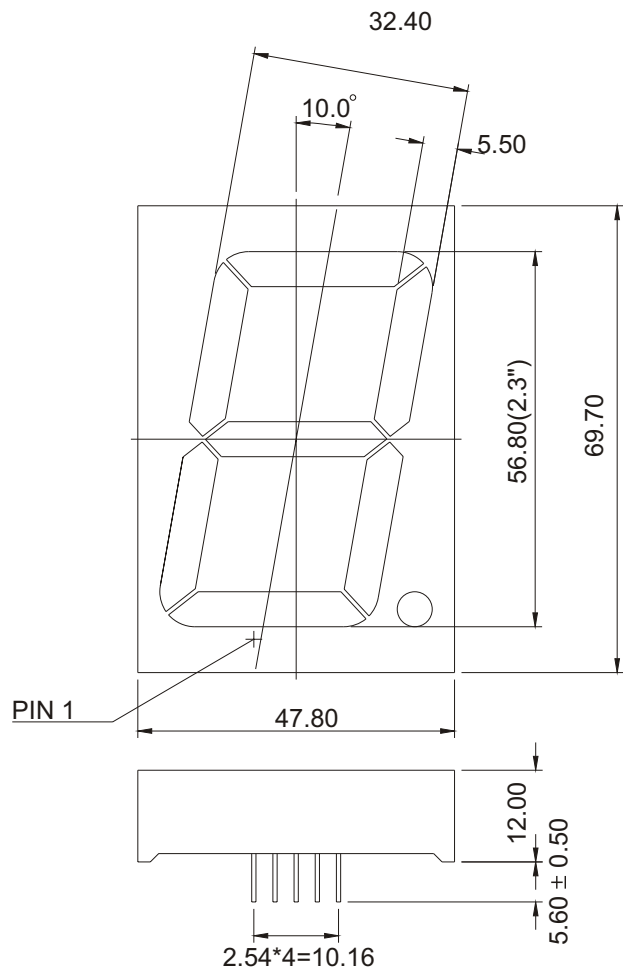
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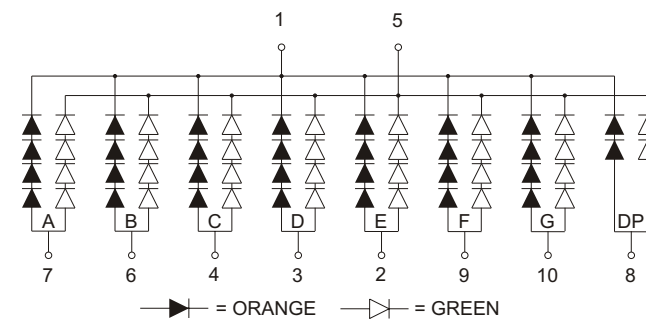
PACKAGE DIMENSION



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

INTERNAL CIRCUIT DIAGRAM

Common Cathode  
NFD-23011AEG



Common Anode  
NFD-23011BEG

