



宁波飞扬电子有限公司
Ningbo Flying Electronics Co.,Ltd.

3.00"(76.00mm)Single Digit Bi-Color 7 Segment Display

Features:

- *High segment intensity
- *Wide viewing angle
- *Range of colors
- *Black 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 Color	Peak Wavelength	Forward Voltage V _F /Seg.(DP)		Luminous Intensity I _v /Seg.(DP)	
				Typ.	Max.	Min.	Typ.
NFD-30012ASG-11	NFD-30012BSG-11	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-30012AEG-11	NFD-30012BEG-11	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)
NFD-30012AUEUG-11	NFD-30012BUEUG-11	AlGaInP Ultra Orange	632	8.00(4.00)	10.00(5.00)	160.00(80.00)	240.00(120.00)
		AlGaInP Ultra Green	572	8.40(4.20)	10.00(5.00)	100.00(50.00)	160.00(80.00)
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	S	G	E	UE	UG		Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I _{FP}	100	100	100	100	100		mA
DC Forward Current Per Seg.		I _F	25	30	30	30	30		mA
Reverse Current Per Seg.	V _R =10V	I _R	10	10	10	10	10		μA
Power Dissipation		P _D	60*30	80*30	80*30	65*30	75*30		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

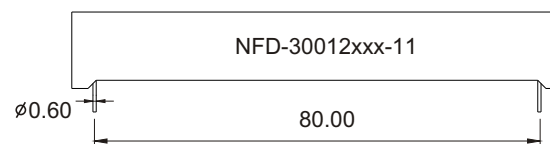
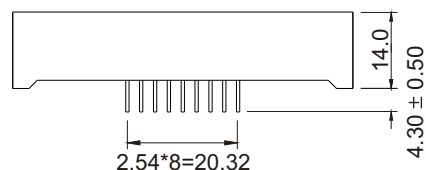
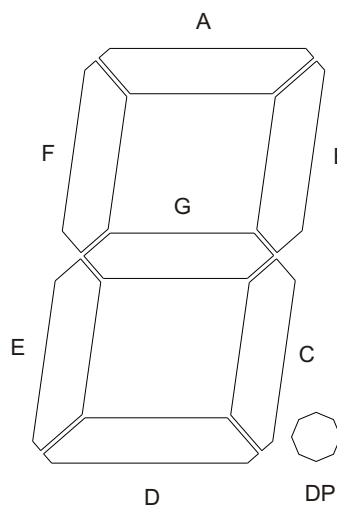
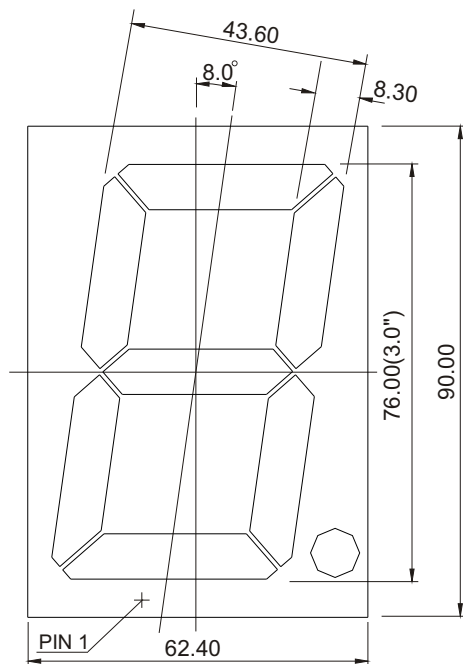
May/19/2009

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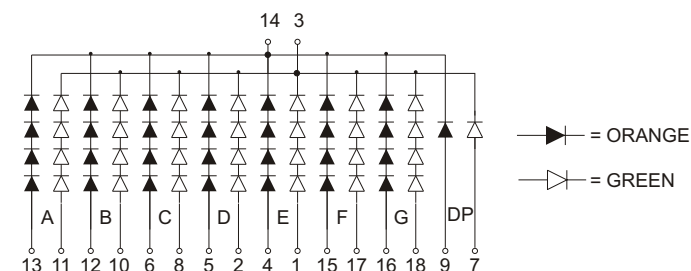
PACKAGE DIMENSION



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

INTERNAL CIRCUIT DIAGRAM

Common Cathode NFD-30012Axx



Common Anode NFD-30012Bxx

