



0.80"(20.00mm)Three Digit 7 Segment Display

Features:

- *Ultra 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

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.		Luminous Intensity I _v /Seg.	
				Typ.	Max.	Min.	Typ.
NFD-8033AUHRb-11	NFD-8033BUHRb-11	AlGaInP/GaAs Ultra Red	640	2.00	2.50	30.00	50.00
NFD-8033AUEb-11	NFD-8033BUEb-11	AlGaInP/GaAs Ultra Orange	632	2.00	2.50	30.00	50.00
NFD-8033AYOb-11	NFD-8033BYOb-11	AlGaInP/GaAs Ultra Amber	605	2.00	2.50	30.00	50.00
NFD-8033AUYb-11	NFD-8033BUYb-11	AlGaInP/GaAs Ultra Yellow	590	2.00	2.50	30.00	50.00
NFD-8033AUGb-11	NFD-8033BUGb-11	AlGaInP/GaAs Ultra Green	574	2.10	2.50	20.00	30.00
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	UHR	UE	YO	UY	UG				Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I _{FP}	80	80	80	80	80				mA
DC Forward Current Per Seg.		I _F	25	25	25	25	25				mA
Reverse Current Per Seg.	V _R =5V	I _R	10	10	10	10	10				μA
Power Dissipation		P _D	60*24	65*24	65*24	65*24	75*24				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

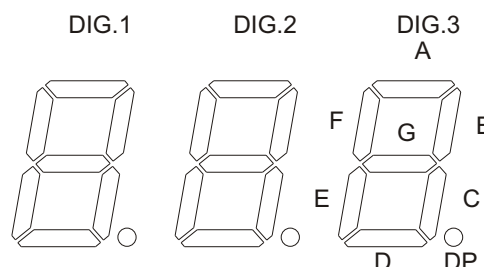
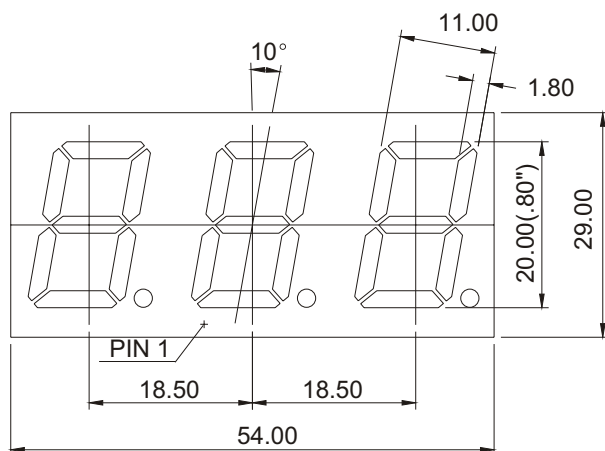
Nov/20/2006

PAGE 1 /2



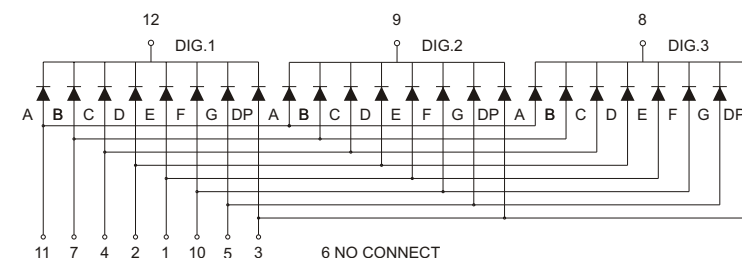
0.80"(20.00mm) Three Digit 7 Segment Display

PACKAGE DIMENSION

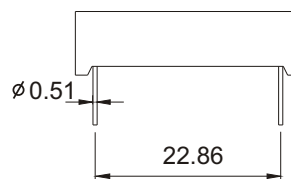
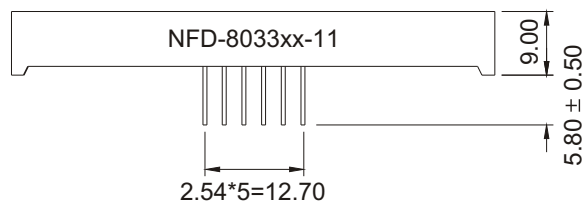
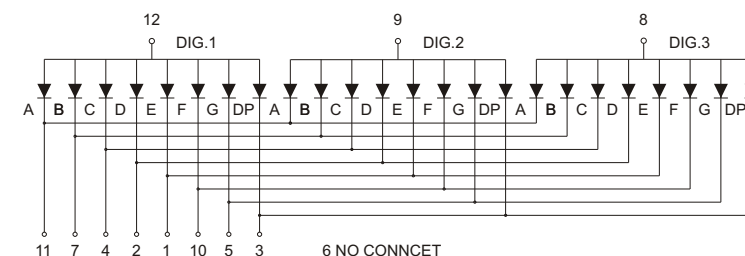


INTERNAL CIRCUIT DIAGRAM

Common Cathode NFD-8033Ax



Common Anode NFD-8033Bx



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

Checked

Chen N.H.

Approved

Jason Chen

Date

Nov/20/2006

PAGE 2 /2