



0.30"(7.80mm)Single Digit 7 Segment Display

Features:

- *High segment intensity
- *Wide viewing angle
- *Range of colours
- *Gray face White segment
- *Rohs compliant

Available option:

- *Alternative face and segment colour
- *Alternative font
- *Cropped terminal pins
- *Available emitting colour
- *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 Vf		Luminous Intensity Iv/seg.	
				Typical	Max.	Min.	Typical
NFD-3011EH-21	NFD-3011FH-21	GaP/GaP Red	700	2.25	2.50	0.80	1.60
NFD-3011ES-21	NFD-3011FS-21	GaAlAs/GaAs SH Hi-Red	660	1.80	2.20	16.00	24.00
NFD-3011ED-21	NFD-3011FD-21	GaAlAs/GaAs DH Super Red	660	1.80	2.20	44.00	56.00
NFD-3011EE-21	NFD-3011FE-21	GaAsP/GaP Orange	632	2.10	2.50	16.00	24.00
NFD-3011EY-21	NFD-3011FY-21	GaAsP/GaP Yellow	585	2.10	2.50	8.00	14.00
NFD-3011EG-21	NFD-3011FG-21	GaP/GaP Green	570	2.20	2.50	14.00	22.00
Units			nm	V		mcd	

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

Characteristic	Condition	Symbol	Red	Hi-Red	Super Red	Orange	Yellow	Green	Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I _{FP}	50	100	100	100	100	100	mA
DC Forward Current Per Seg.		I _F	15	25	25	30	30	30	mA
Reverse Current Per Seg.	V _r =10V	I _R	10	10	10	10	10	10	μA
Power Dissipature		P _D	40*8	60*8	60*8	80*8	80*8	80*8	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

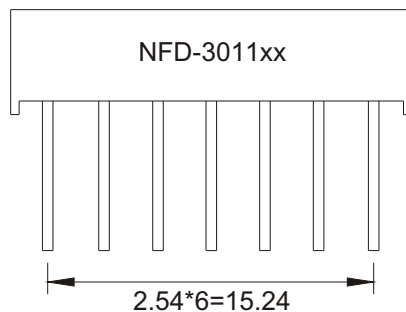
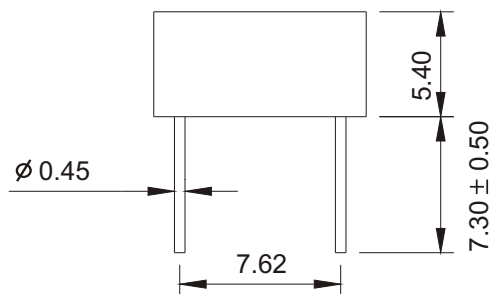
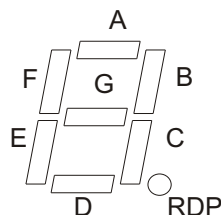
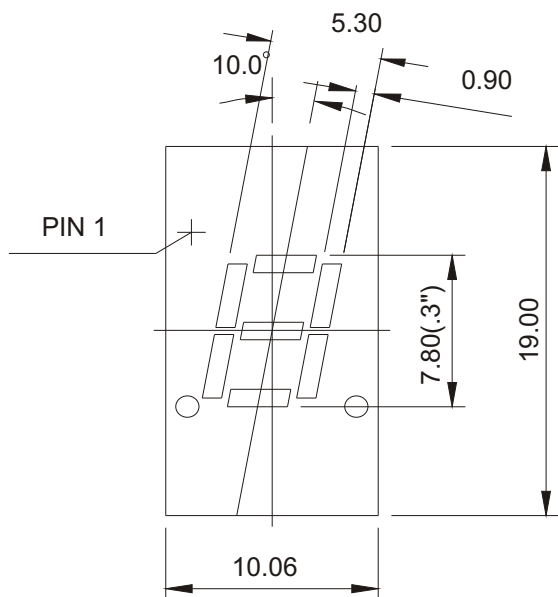
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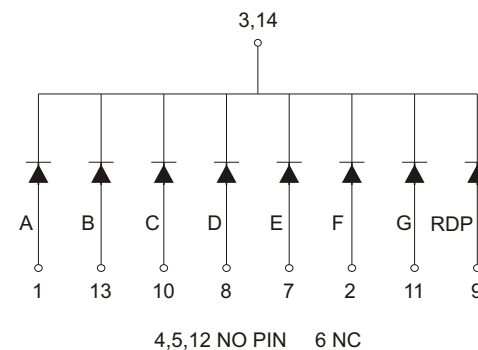
PACKAGE DIMENSION



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

INTERNAL CIRCUIT DIAGRAM

Common Cathode
NFD-3011Ex



Common Anode
NFD-3011Fx

