



## 1.50"(38.10mm)Dual Digit 7 Segment With Arrow Special Design Display

### Features:

- \*Ultra segment intensity
- \*Wide viewing angle
- \*Range of colors
- \*Black face White segment
- \*RoHS compliant

### Available option:

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

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

Part Number	Emitting Color	Peak Wavelength	Forward Voltage V <sub>F</sub> /Seg.(DP)		Luminous Intensity I <sub>v</sub> /Seg.(DP)	
			Typ.	Max.	Min.	Typ.
NFD-15021ZUHR-11	AlGaInP/GaAs Ultra Red	640	4.00	5.00	80.00	120.00
NFD-15021ZUE-11	AlGaInP/GaAs Ultra Orange	632	4.00	5.00	80.00	120.00
NFD-15021ZYO-11	AlGaInP/GaAs Ultra Amber	605	4.00	5.00	80.00	120.00
NFD-15021ZUY-11	AlGaInP/GaAs Ultra Yellow	590	4.00	5.00	80.00	120.00
NFD-15021ZUG-11	AlGaInP/GaAs Ultra Green	574	4.20	5.00	50.00	80.00
NFD-15021ZPG-11	InGaN/SiC Pure Green	525	6.60	7.60	300.00	400.00
NFD-15021ZUB-11	InGaN/SiC Ultra Blue	470	6.60	7.60	80.00	200.00
NFD-15021ZUW-11	InGaN/SiC Ultra White	X-0.31/Y-0.31	6.60	7.60	400.00	1000.00
Units		nm	V		mcd	

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

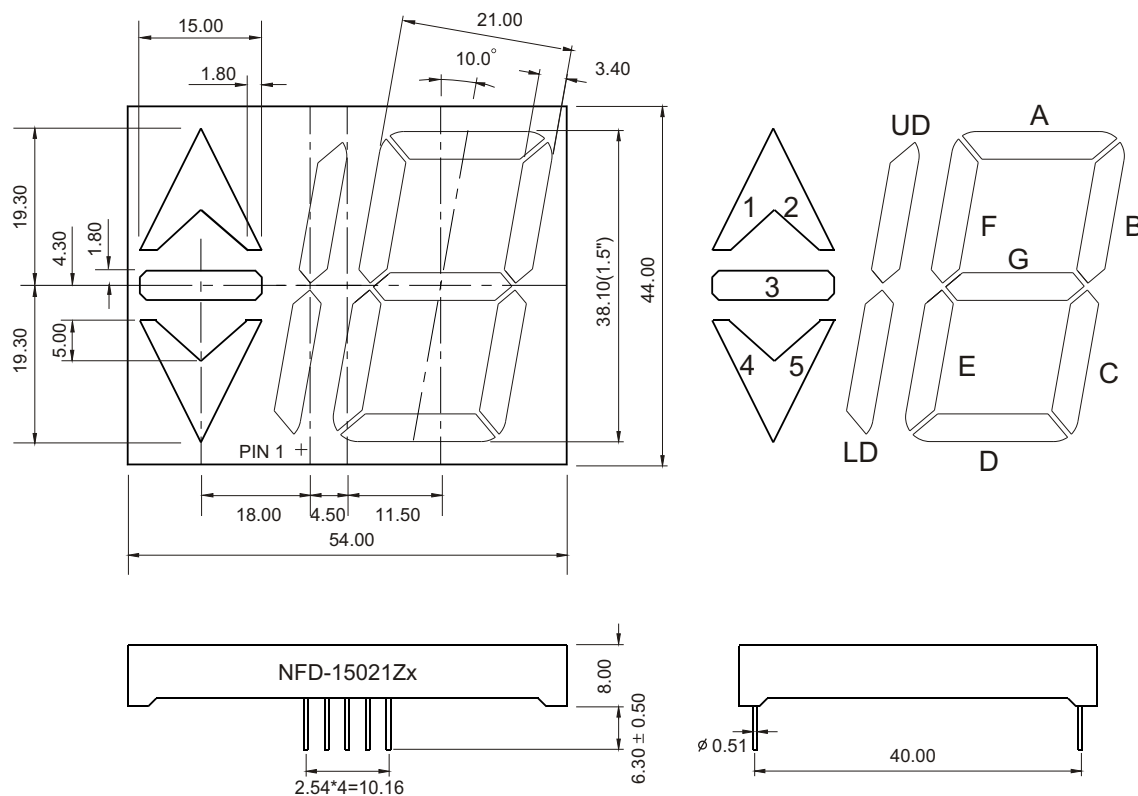
Characteristic	Test Condition	Symbol	UHR	UE	YO	UY	UG	PG	UB	UW	Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100	100	100	100	100	100	100	100	mA
DC Forward Current Per Seg.		I <sub>F</sub>	30	30	30	30	30	30	30	30	mA
Reverse Current Per Seg.	V <sub>R</sub> =10V	I <sub>R</sub>	10	10	10	10	10	10	10	10	μA
Power Dissipation		P <sub>D</sub>	65*28	65*28	65*28	65*28	75*28	110*28	120*28	120*28	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	Mar/31/2008	PAGE 1 / 2
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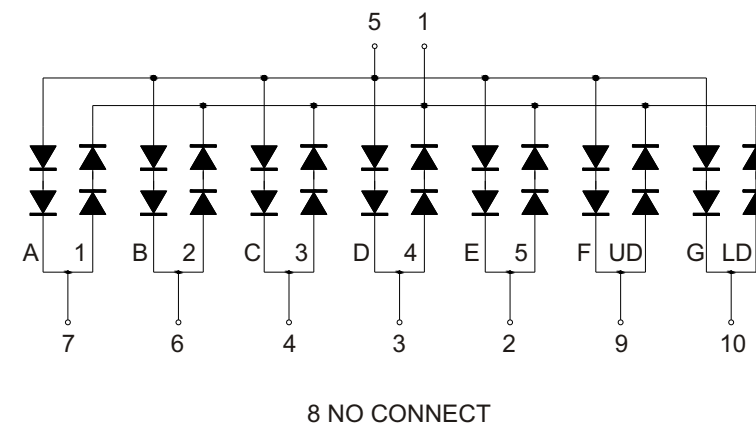
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## PACKAGE DIMENSION



## INTERNAL CIRCUIT DIAGRAM

### NFD-15021Zx



Tolerance  $\pm 0.25$ mm unless stated

Checked

Chen N.H.

Approved

Jason Chen

Date

Mar/31/2008

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