



## 5.00"(122.00mm) Segment Display

### Features:

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

### Available option:

- \*Available emitting color
- \*Available segment color
- \*Low current version

### Electro/Optical Characteristics If=20\*3mA Ta=25°C

Part Number Horizontal Segment	Part Number Vertical Segment	Emitting Color	Peak Wavelength	Forward Voltage V <sub>F</sub> /Seg.		Luminous Intensity I <sub>v</sub> /Seg.	
				Typ.	Max.	Min.	Typ.
NFD-50012BUE-01-H	NFD-50012BUE-01-V	AlGaInP/GaAs Ultra Orange	632	10.00	12.50	600.00	900.00
NFD-50012BS-01-H	NFD-50012BS-01-V	GaAlAs/GaAs SH Hi-Red	660	9.00	11.00	120.00	180.00
NFD-50012BD-01-H	NFD-50012BD-01-V	GaAlAs/GaAs DH Super Red	660	9.00	11.00	330.00	420.00
NFD-50012BE-01-H	NFD-50012BE-01-V	GaAsP/GaP Orange	632	10.50	12.50	120.00	180.00
NFD-50012BY-01-H	NFD-50012BY-01-V	GaAsP/GaP Yellow	585	10.50	12.50	60.00	105.00
NFD-50012BG-01-H	NFD-50012BG-01-V	GaP/GaP Green	568	10.50	12.50	105.00	165.00
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	UE	S	D	E	Y	G	Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100*3	100*3	100*3	100*3	100*3	100*3	mA
DC Forward Current Per Seg.		I <sub>F</sub>	30*3	25*3	25*3	30*3	30*3	30*3	mA
Reverse Current Per Seg.	V <sub>R</sub> =10V	I <sub>R</sub>	10	10	10	10	10	10	μA
Power Dissipation		P <sub>D</sub>	65*15	60*15	60*15	80*15	80*15	80*15	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

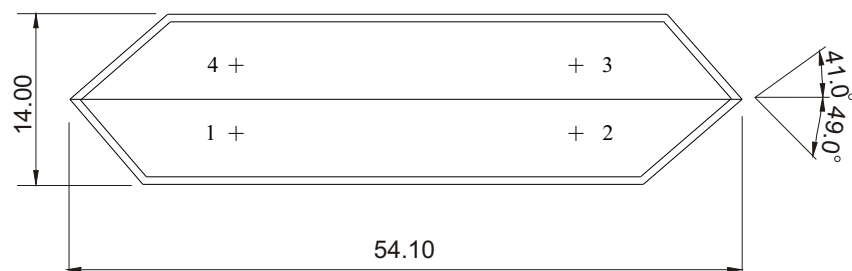
Apr/17/2009

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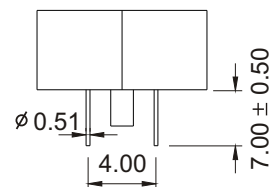
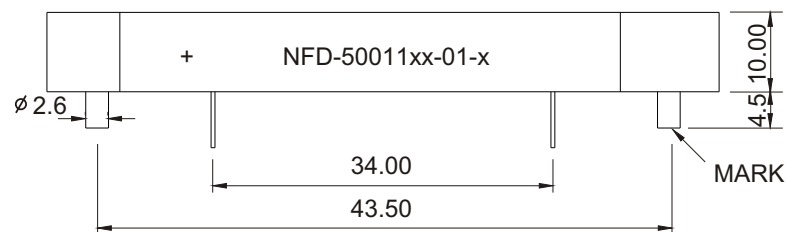


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### PACKAGE DIMENSION

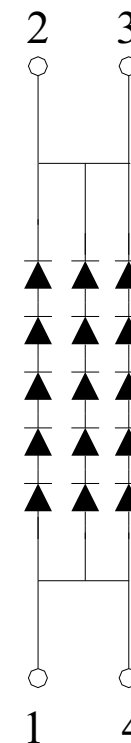


Mark:  
Horizontal ○  
Vertical ⊕



### INTERNAL CIRCUIT DIAGRAM

Common Anode  
NFD-50012Bx-H  
NFD-50012Bx-V



Tolerance  $\pm 0.25$ mm unless stated

Checked

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