



20.00mm X 40.00mm Single Color Light Bar

Features:

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

Available option:

- *Alternative face color
- *Cropped terminal pins
- *Available emitting color
- *Low current version

Electro/Optical Characteristics If=20*2mA Ta=25°C

Part Number	Emitting Colors	Peak Wavelength	Forward Voltage V _F		Luminous Intensity I _v	
			Typ.	Max.	Min.	Typ.
NFA-R2040ZH-01	GaP/GaP Red	700	11.25	12.50	4.00	8.00
NFA-R2040ZS-01	GaAlAs/GaAs SH Hi-Red	660	9.00	11.00	80.00	120.00
NFA-R2040ZD-01	GaAlAs/GaAs DH Super Red	660	9.00	11.00	220.00	280.00
NFA-R2040ZE-01	GaAsP/GaP Orange	632	10.50	12.50	80.00	120.00
NFA-R2040ZY-01	GaAsP/GaP Yellow	585	10.50	12.50	40.00	70.00
NFA-R2040ZG-01	GaP/GaP Green	568	11.00	12.50	70.00	110.00
Units		nm	V		mcd	

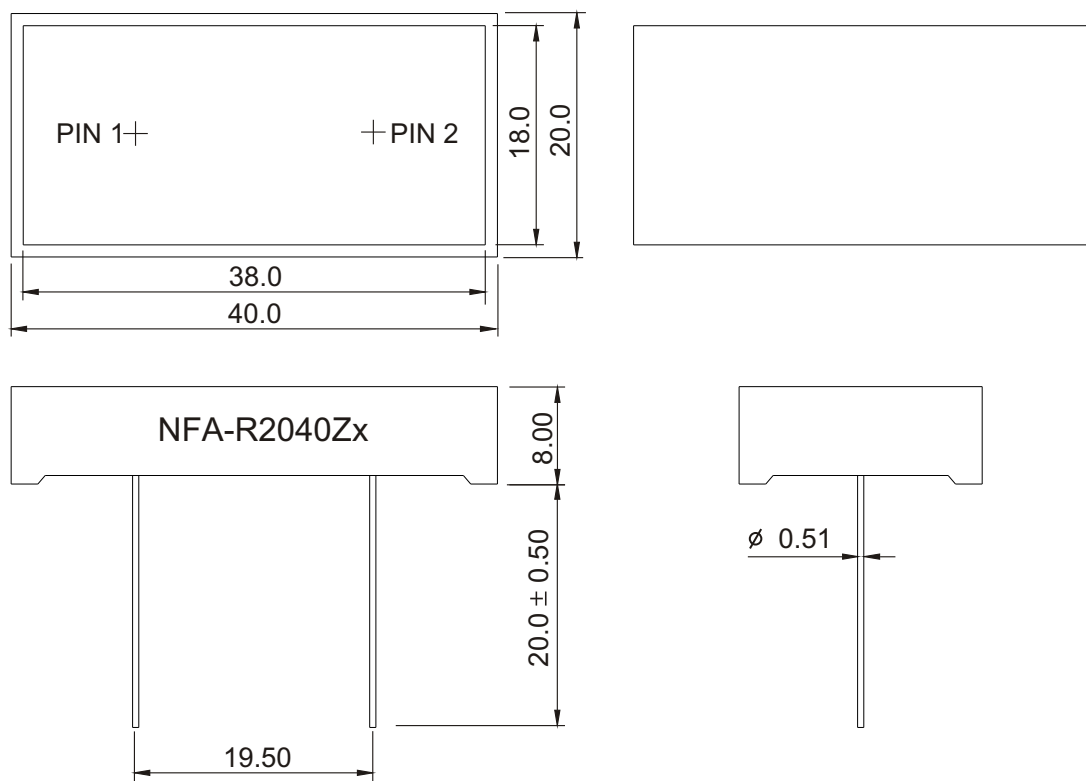
Maximum Ratings Ta=25°C (Derate above 25°C)

Characteristic	Test Condition	Symbol	H	S	D	E	Y	G	Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I _{FP}	50*2	100*2	100*2	100*2	100*2	100*2	mA
DC Forward Current Per Seg.		I _F	15*2	25*2	25*2	30*2	30*2	30*2	mA
Reverse Current Per Seg.	V _R =10V	I _R	10	10	10	10	10	10	μA
Power Dissipation		P _D	40*10	60*10	60*10	80*10	80*10	80*10	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



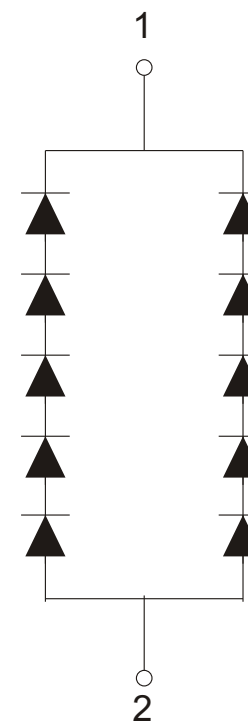
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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

NFA-R2040Zx



Tolerance ± 0.25 mm unless stated

Checked

Chen N.H.

Approved

Jason Chen

Date

Apr/29/2010

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