



40.00mm 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 <sub>F</sub>		Luminous Intensity I <sub>v</sub>	
			Typ.	Max.	Min.	Typ.
NFA-S40ZH-01	GaP/GaP Red	700	22.50	25.00	8.00	16.00
NFA-S40ZS-01	GaAlAs/GaAs SH Hi-Red	660	18.00	22.00	160.00	240.00
NFA-S40ZD-01	GaAlAs/GaAs DH Super Red	660	18.00	22.00	440.00	560.00
NFA-S40ZE-01	GaAsP/GaP Orange	632	21.00	25.00	160.00	240.00
NFA-S40ZY-01	GaAsP/GaP Yellow	585	21.00	25.00	80.00	140.00
NFA-S40ZG-01	GaP/GaP Green	568	22.00	25.00	140.00	220.00
Units		nm	V		mcd	

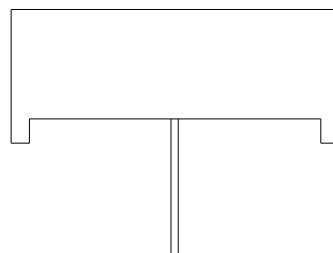
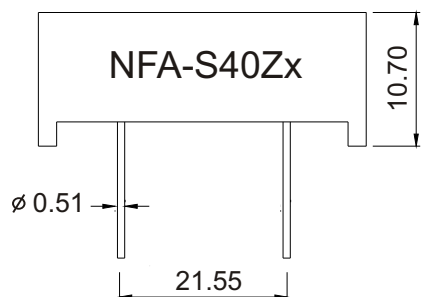
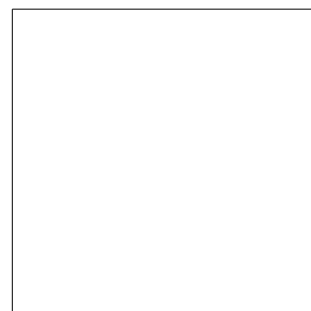
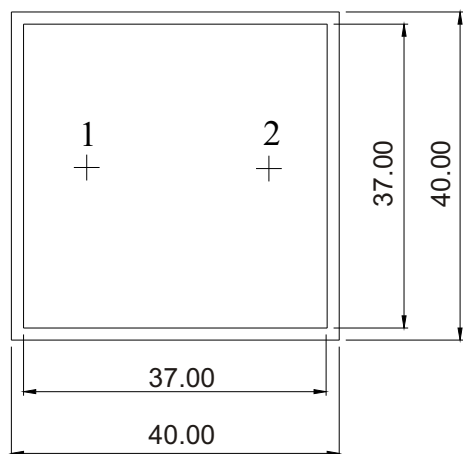
**Maximum Ratings Ta=25°C (Derate above 25°C)**

Characteristic	Test Condition	Symbol	H	S	D	E	Y	G	Units
Pulse Forward Current	1/10 duty cycle 0.1ms Pulse width	I <sub>FP</sub>	50*2	100*2	100*2	100*2	100*2	100*2	mA
DC Forward Current		I <sub>F</sub>	15*2	25*2	25*2	30*2	30*2	30*2	mA
Reverse Current	V <sub>R</sub> =30V	I <sub>R</sub>	10	10	10	10	10	10	μA
Power Dissipation		P <sub>D</sub>	40*20	60*20	60*20	80*20	80*20	80*20	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



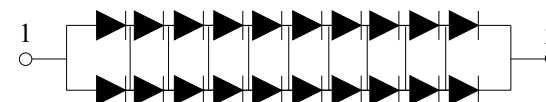
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### PACKAGE DIMENSION



### INTERNAL CIRCUIT DIAGRAM

NFA-S40Zx



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

Checked

Chen N.H.

Approved

Jason Chen

Date

Jau/18/2010

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