



20.00mm X 10.00mm Single Color Light Bar

Features:

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

Available option:

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

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

Part Number	Emitting Color	Peak Wavelength	Forward Voltage V _F		Luminous Intensity I _v	
			Typ.	Max.	Min.	Typ.
NFA-R2010ZUHR-01	AlGaInP/GaAs Ultra Red	640	2.00	2.50	320.00	480.00
NFA-R2010ZUE-01	AlGaInP/GaAs Ultra Orange	632	2.00	2.50	320.00	480.00
NFA-R2010ZYO-01	AlGaInP/GaAs Ultra Amber	605	2.00	2.50	320.00	480.00
NFA-R2010ZUY-01	AlGaInP/GaAs Ultra Yellow	590	2.00	2.50	320.00	480.00
NFA-R2010ZUG-01	AlGaInP/GaAs Ultra Green	574	2.10	2.50	200.00	480.00
NFA-R2010ZPG-01	InGaN/SiC Pure Green	525	3.30	3.80	1200.00	1600.00
NFA-R2010ZUB-01	InGaN/SiC Ultra Blue	470	3.30	3.80	320.00	800.00
NFA-R2010ZUW-01	InGaN/SiC Ultra White	X-0.31/Y-0.31	3.30	3.80	1600.00	4000.00
Units		nm	V		mcd	

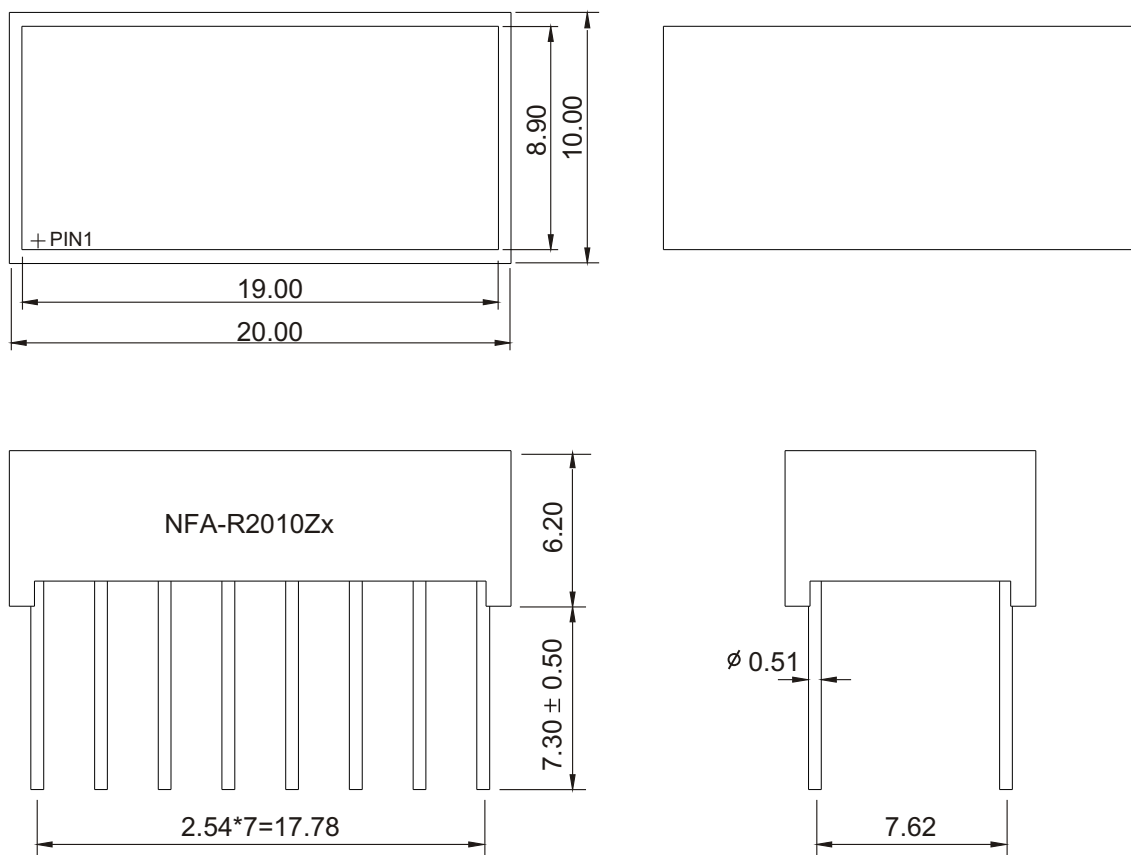
Maximum Ratings Ta=25°C (Derate above 25°C)

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 _{FP}	100	100	100	100	100	100	100	100	mA
DC Forward Current Per Seg.		I _F	30	30	30	30	30	30	30	30	mA
Reverse Current Per Seg.	V _R =10V	I _R	10	10	10	10	10	10	10	10	μA
Power Dissipation		P _D	60*8	65*8	65*8	65*8	75*8	110*8	120*8	120*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



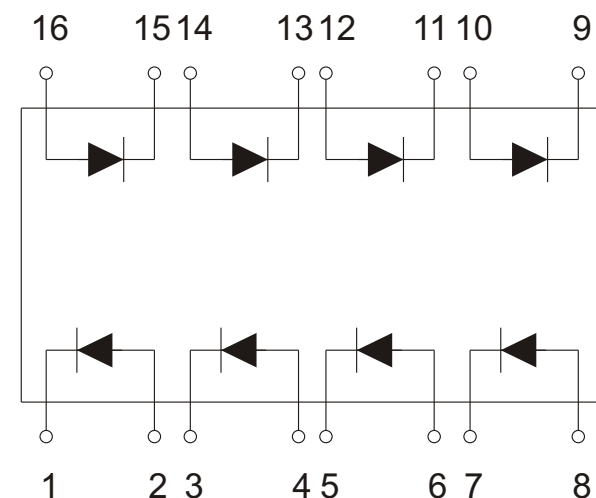
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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

NFA-R2010Zx



Tolerance ± 0.25 mm unless stated

Checked

Chen N.H.

Approved

Jason Chen

Date

Jun/10/2011

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