



14.5mm Equilateral triangle Special Design Led Displays

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=20mA Ta=25°C

| Part Number | Emitting Color | Peak Wavelength | Forward Voltage Vf/Seg. | | Luminous Intensity Iv/Seg. | |
|----------------|---------------------------|-----------------|-------------------------|------|----------------------------|---------|
| | | | Typ. | Max. | Min. | Typ. |
| NFA-T13ZUHR-01 | AlGaInP/GaAs Ultra Red | 640 | 4.00 | 5.00 | 160.00 | 240.00 |
| NFA-T13ZUE-01 | AlGaInP/GaAs Ultra Orange | 632 | 4.00 | 5.00 | 160.00 | 240.00 |
| NFA-T13ZYO-01 | AlGaInP/GaAs Ultra Amber | 605 | 4.00 | 5.00 | 160.00 | 240.00 |
| NFA-T13ZUY-01 | AlGaInP/GaAs Ultra Yellow | 590 | 4.00 | 5.00 | 160.00 | 240.00 |
| NFA-T13ZUG-01 | AlGaInP/GaAs Ultra Green | 574 | 4.20 | 5.00 | 100.00 | 160.00 |
| NFA-T13ZPG-01 | InGaN/SiC Pure Green | 525 | 6.60 | 7.60 | 600.00 | 1200.00 |
| NFA-T13ZUB-01 | InGaN/SiC Ultra Blue | 470 | 6.60 | 7.60 | 160.00 | 400.00 |
| NFA-T13ZUW-01 | InGaN/SiC Ultra White | X-0.31/Y-0.31 | 6.60 | 7.60 | 800.00 | 2000.00 |
| 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 | 65*4 | 65*4 | 65*4 | 65*4 | 75*4 | 110*4 | 120*4 | 120*4 | 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 |

Checked

Chen N.H.

Approved

Jason Chen

Date

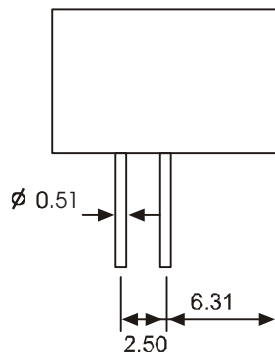
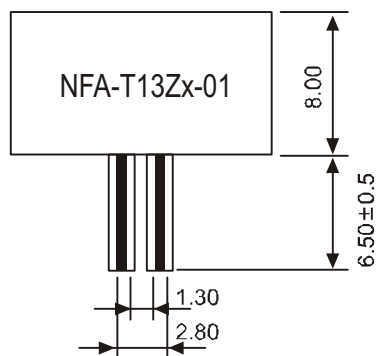
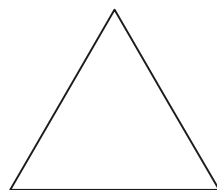
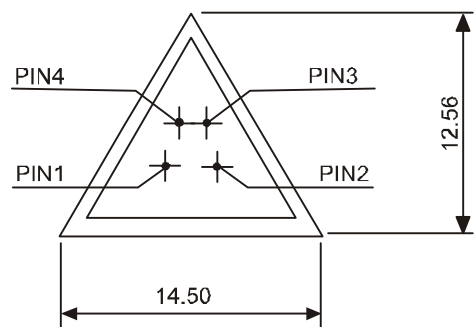
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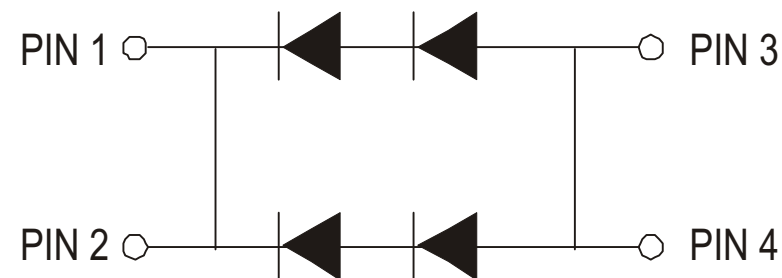
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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

NFA-T13Zx



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

Checked

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