



7.00"(176.00mm) 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 _F /Seg. | | Luminous Intensity I _v /Seg. | |
|-----------------------------------|---------------------------------|---------------------------|--------------------|--------------------------------------|-------|---|--------|
| | | | | Typ. | Max. | Min. | Typ. |
| NFD-70011DUE-01-H | NFD-70011DUE-01-V | AlGaInP/GaAs Ultra Orange | 632 | 10.00 | 12.50 | 600.00 | 900.00 |
| NFD-70011DS-01-H | NFD-70011DS-01-V | GaAlAs/GaAs SH Hi-Red | 660 | 9.00 | 11.00 | 120.00 | 180.00 |
| NFD-70011DD-01-H | NFD-70011DD-01-V | GaAlAs/GaAs DH Super Red | 660 | 9.00 | 11.00 | 330.00 | 420.00 |
| NFD-70011DE-01-H | NFD-70011DE-01-V | GaAsP/GaP Orange | 632 | 10.50 | 12.50 | 120.00 | 180.00 |
| NFD-70011DY-01-H | NFD-70011DY-01-V | GaAsP/GaP Yellow | 585 | 10.50 | 12.50 | 60.00 | 105.00 |
| NFD-70011DG-01-H | NFD-70011DG-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)

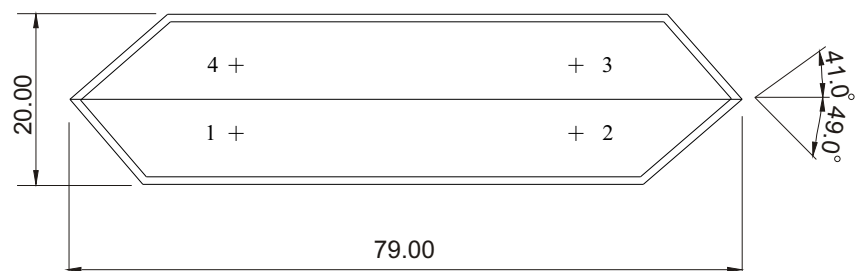
| Characteristic | Test Condition | Symbol | UE | S | D | E | Y | G | Units |
|--------------------------------|------------------------------------|------------------|------------|-------|-------|-------|-------|-------|-------|
| Pulse Forward Current Per Seg. | 1/10 duty cycle 0.1ms Pulse width | I _{FP} | 100*3 | 100*3 | 100*3 | 100*3 | 100*3 | 100*3 | mA |
| DC Forward Current Per Seg. | | I _F | 30*3 | 25*3 | 25*3 | 30*3 | 30*3 | 30*3 | mA |
| Reverse Current Per Seg. | V _R =10V | I _R | 10 | 10 | 10 | 10 | 10 | 10 | μA |
| Power Dissipation | | P _D | 65*15 | 60*15 | 60*15 | 80*15 | 80*15 | 80*15 | 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 | Sep/04/2006 | PAGE 1 / 2 | | | |
|---------|-----------|----------|------------|------|-------------|------------|--|--|--|

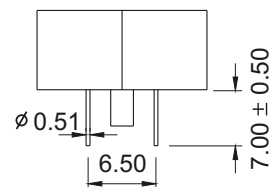
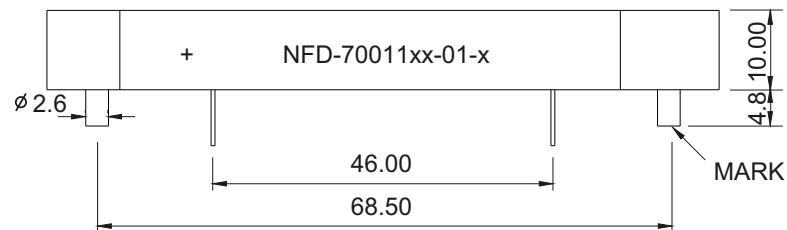


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PACKAGE DIMENSION

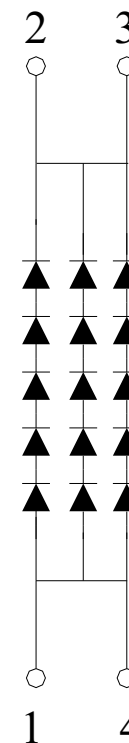


Mark:
Horizontal ○
Vertical ⊕



INTERNAL CIRCUIT DIAGRAM

Common Anode
NFD-70011Dx-H
NFD-70011Dx-V



Tolerance ± 0.25 mm unless stated

Checked

Chen N.H.

Approved

Jason Chen

Date

Sep/04/2006

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