

# 150U/150UR

## SILICON POWER DIODE



**NAINA**

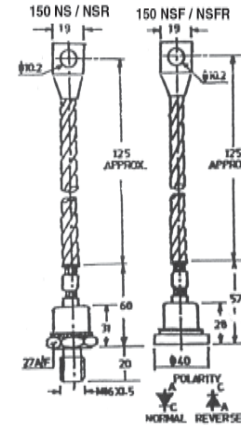
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### FEATURES

- Diffused Series
- Available in Normal & Reverse Polarity
- Industrial Grade
- Available In Avalanche Characteristic

### ELECTRICAL SPECIFICATIONS

|           |   |                           |
|-----------|---|---------------------------|
| $I_F$     | Maximum Average Forward Current $T_c=125^\circ\text{C}$ | 150A                      |
| $V_{FM}$  | Maximum peak forward voltage drop @ Rated $I_F(AV)$     | 1.4V                      |
| $I_{FSM}$ | Maximum peak one cycle (non-rep) surge current 10 m sec | 3000A                     |
| $I_{FRM}$ | Maximum peak repetitive surge current                   | 750A                      |
| $I^2t$    | Maximum $I^2t$ rating (non-rep.) for 5 to 10 msec.      | 45,000 A <sup>2</sup> Sec |



### THERMAL MECHANICAL SPECIFICATIONS

|               |   |                               |
|---------------|---|-------------------------------|
| $\theta_{JC}$ | Maximum thermal resistance Junction to case | 0.25°C/W                      |
| $T_j$         | Operating Junction Temp.                    | -65°C to 150°C                |
| $T_{stg}$     | Storage temperature                         | -65°C to 200°C                |
|               | Mounting torque (Non-lubricated threads)    | 2.0 M-kg min,<br>3.0 M-kg max |
| $W$           | Approx, weight                              | 150 gms.                      |

### ELECTRICAL RATINGS

| TYPE       | 150U/150UR   | 10  | 20  | 40  | 60  | 80  | 100  | 120  | 140  | 160  |
|------------|--|-----|-----|-----|-----|-----|------|------|------|------|
| $V_{RRM}$  | Max. repetitive peak reverse voltage (v)                         | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 |
| $V_R(RMS)$ | Max. R.M.S. reverse voltage (V)                                  | 70  | 140 | 280 | 420 | 560 | 700  | 840  | 980  | 1120 |
| $V_R$      | Max. D.C. Blocking Voltage (V)                                   | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 |
|            | Recommended R.M.S. working Voltage(v)                            | 40  | 80  | 160 | 240 | 320 | 400  | 480  | 560  | 640  |
| $I_R(AV)$  | Max. Average reverse leakage current @ $V_{RRM}$ $T_c$ 25°C (uA) | 200 | 200 | 200 | 200 | 200 | 200  | 200  | 200  | 200  |

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