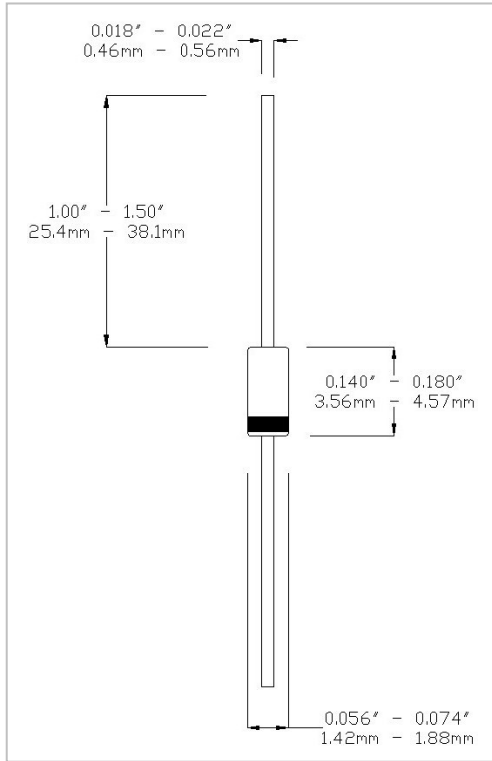


1N648-1

FEATURES

- 1N648-1
- SILICON RECTIFIER
- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION



MAXIMUM RATINGS AT 25 °C

| | |
|------------------------------|--------------------------------|
| Operating Temperature: | -65°C to +175°C |
| Storage Temperature: | -65°C to +175°C |
| Surge Current A, sine 8.3ms: | 5.0A |
| Total Power Dissipation: | 500mW |
| Operating Current: | 400mA, T _A = +25°C |
| Operating Current: | 150mA, T _A = +150°C |
| Derating Factor: | 2mA/°C above +25°C |
| Derating Factor: | 6mA/°C above +150°C |
| D.C. Reverse Voltage (VRWM): | 500V |

DC ELECTRICAL CHARACTERISTICS

| V _F | | | | I _R | | | |
|----------------|-------------------|-------|-------|----------------|-----------------------|--------|--------|
| Ambient (°C) | I _F mA | Min V | Max V | Ambient (°C) | V _R V (dc) | Min μA | Max μA |
| 25 | 400 | 0.80 | 1.00 | 25 | 500 | - | 0.050 |
| | | | | 25 | 600 | - | 50 |

DESIGN DATA

Case: Hermetically sealed glass package

Lead Material: Copper clad steel

Lead Finish: Tin/Lead

Marking: Blue body coat, Black digits.

Polarity: Cathode end is banded.

AC ELECTRICAL CHARACTERISTICS AT 25°C

| | Symbol | Min | Max |
|-----------------------------------|--------|-----|-----|
| Capacitance @ V _R = 4V | pF | - | 20 |



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