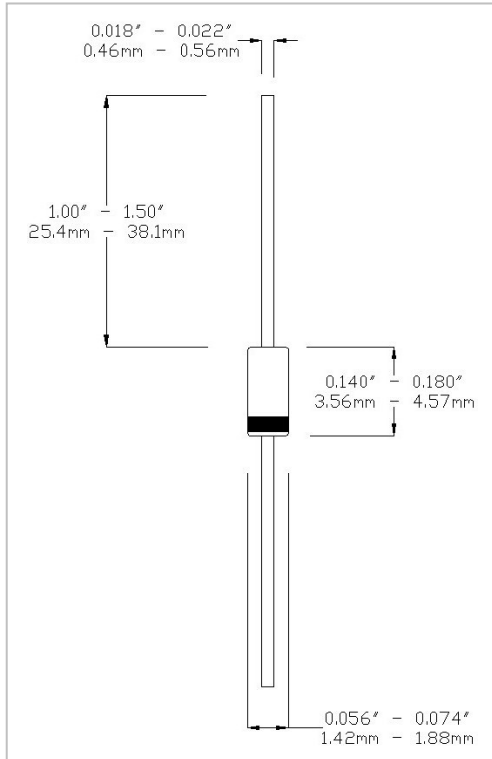


# 1N649-1

## FEATURES

- 1N649-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/240
- 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 <sub>A</sub> = +25°C  |
| Operating Current:           | 150mA, T <sub>A</sub> = +150°C |
| Derating Factor:             | 2mA/°C above +25°C             |
| Derating Factor:             | 6mA/°C above +150°C            |
| D.C. Reverse Voltage (VRWM): | 600V                           |

## DC ELECTRICAL CHARACTERISTICS

| V <sub>F</sub> |                   |       |       | I <sub>R</sub> |                       |        |        |
|----------------|-------------------|-------|-------|----------------|-----------------------|--------|--------|
| Ambient (°C)   | I <sub>F</sub> mA | Min V | Max V | Ambient (°C)   | V <sub>R</sub> V (dc) | Min μA | Max μA |
| 25             | 400               | 0.80  | 1.00  | 25             | 600                   | -      | 0.050  |
| 150            | 400               | 0.70  | 0.95  | 25             | 720(ac)               | -      | 50     |
| -55            | 400               | -     | 1.20  | 150            | 600                   | -      | 25     |

## DESIGN DATA

**Case:** Hermetically sealed glass package per MIL-PRF-19500/240 DO-35 outline

**Lead Material:** Copper clad steel

**Lead Finish:** Tin/Lead

**Thermal Resistance (R<sub>θJL</sub>):** 250°C/W maximum at L=0.375"

**Thermal Impedance (Z<sub>θJX</sub>):** 35°C/W maximum

**Marking:** Blue body coat, Black digits.

**Polarity:** Cathode end is banded.

## AC ELECTRICAL CHARACTERISTICS AT 25°C

|                                   | Symbol | Min | Max |
|-----------------------------------|--------|-----|-----|
| Capacitance @ V <sub>R</sub> = 4V | pF     | -   | 20  |



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