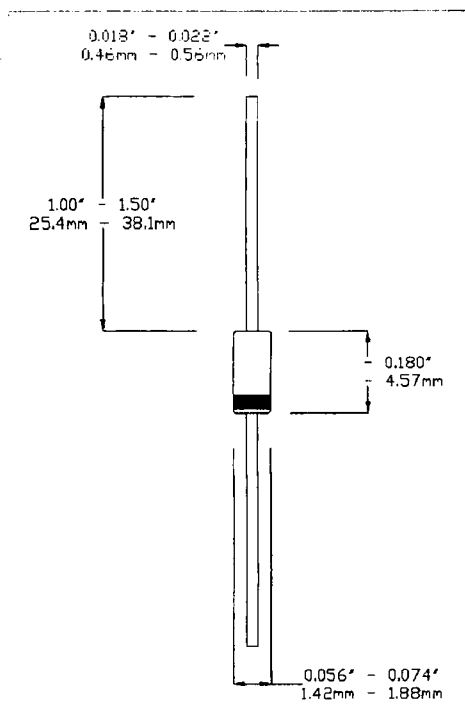


# 1N645-1

## FEATURES

- 1N645-1
- SILICON RECTIFIER
- METALLURGICALLY BONDED
- HERMETICALLY SEALED



## 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, $T_A = +25^\circ\text{C}$  |
| Operating Current:           | 150mA, $T_A = +150^\circ\text{C}$ |
| Derating Factor:             | 2mA/°C above +25°C                |
| Derating Factor:             | 6mA/°C above +150°C               |
| D.C. Reverse Voltage (VRWM): | 225V                              |

## DC ELECTRICAL CHARACTERISTICS

| Ambient (°C) | $V_F$    |       |       | $I_R$        |              |                   |                   |
|--------------|----------|-------|-------|--------------|--------------|-------------------|-------------------|
|              | $I_F$ mA | Min V | Max V | Ambient (°C) | $V_R$ V (dc) | Min $\mu\text{A}$ | Max $\mu\text{A}$ |
| 25           | 400      | 0.80  | 1.00  | 25           | 225          | -                 | 0.050             |
| 150          | 400      | 0.70  | 0.95  | 25           | 270(ac)      | -                 | 50                |
| -55          | 400      | -     | 1.20  | 150          | 225          | -                 | 25                |

## DESIGN DATA

Case: Hermetically sealed glass package  
DO-35 outline

Lead Material: Copper clad steel

Lead Finish: Tin/Lead

Thermal Resistance ( $R_{\theta JL}$ ): 250°C/W maximum  
at  $L = .375"$

Thermal Impedance ( $Z_{\theta JX}$ ): 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 @ $V_R = 4V$ | pF     | -   | 20  |



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