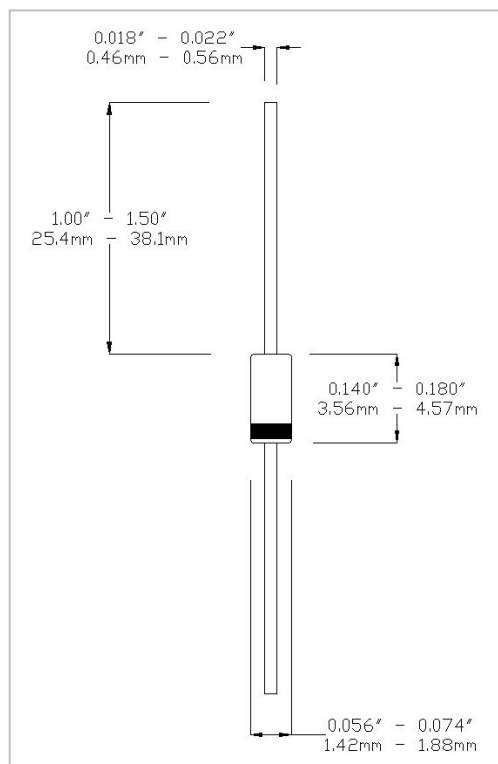


# 1N3595-1

## FEATURES

- 1N3595-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/241
- SWITCHING DIODE
- 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 1S:    | 500mA                         |
| Surge Current A, sine 1uS:   | 4A                            |
| Total Power Dissipation:     | 500mW                         |
| Operating Current:           | 150mA, T <sub>A</sub> = +25°C |
| Derating Factor:             | 1mA/°C above +25°C            |
| D.C. Reverse Voltage (VRWM): | 125V                          |

## DC ELECTRICAL CHARACTERISTICS

| V <sub>F</sub> |                   |       |       | I <sub>R</sub> |                       |        |        | V <sub>BR</sub> |                   |       |       |
|----------------|-------------------|-------|-------|----------------|-----------------------|--------|--------|-----------------|-------------------|-------|-------|
| Ambient (°C)   | I <sub>F</sub> mA | Min V | Max V | Ambient (°C)   | V <sub>R</sub> V (dc) | Min μA | Max μA | Ambient (°C)    | I <sub>R</sub> μA | Min V | Max V |
| 25             | 1                 | 0.52  | 0.68  | 25             | 125                   | -      | 0.001  | -55             | 100               | 150   | -     |
| 25             | 5                 | 0.60  | 0.75  | 150            | 125                   | -      | 3.000  |                 |                   |       |       |
| 25             | 10                | 0.65  | 0.80  |                |                       |        |        |                 |                   |       |       |
| 25             | 50                | 0.74  | 0.88  |                |                       |        |        |                 |                   |       |       |
| 25             | 100               | 0.79  | 0.92  |                |                       |        |        |                 |                   |       |       |
| 25             | 200               | 0.83  | 1.00  |                |                       |        |        |                 |                   |       |       |

## DESIGN DATA

**Case:** Hermetically sealed glass package per MIL-PRF-19500/241 DO-35 outline

**Lead Material:** Copper clad steel

**Lead Finish:** Tin/Lead

**Thermal Impedance (Z<sub>θJX</sub>):** 70°C/W maximum

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

**Polarity:** Cathode end is banded.

## AC ELECTRICAL CHARACTERISTICS AT 25°C

|                                                | Symbol | Min | Max |
|------------------------------------------------|--------|-----|-----|
| Capacitance @ 0V                               | pF     | -   | 8.0 |
| T <sub>RR</sub> @ I <sub>F</sub> =10mA, VR=35V | usec   | -   | 3.0 |



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