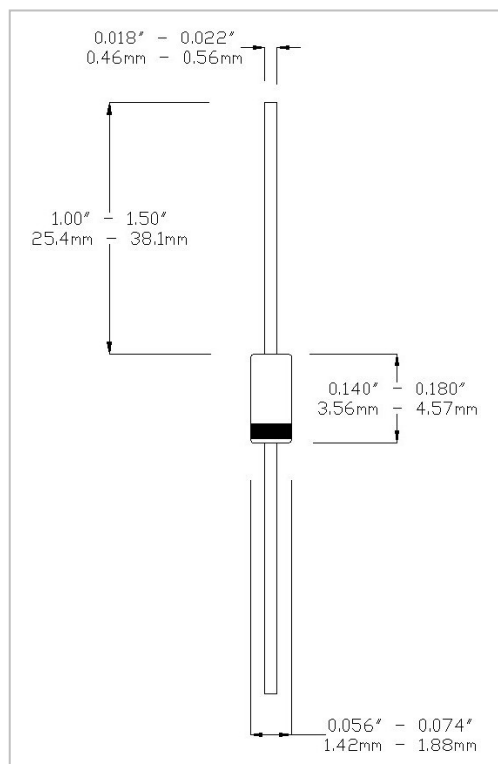


# 1N5194

## FEATURES

- 1N5194 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/118
- 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, sine, 8.3mS:    | 2A                                     |
| Total Power Dissipation, 25°C: | 500mW                                  |
| Power Derating Factor, 25°C:   | 3mW/°C                                 |
| Max. Operating Current, 25°C:  | 200mA                                  |
| Derating Factor:               | 1.2mA/°C above T <sub>A</sub> = +25°C  |
| Max. Operating Current, 150°C: | 50mA                                   |
| Derating Factor:               | 1.0mA/°C above T <sub>A</sub> = +150°C |
| D.C. Reverse Voltage (VRWM):   | 70V                                    |

## DESIGN DATA

**Case:** Hermetically sealed glass package per MIL-PRF-19500/118 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

## 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 (dc) | Min μA | Max μA |
| 25             | 100               | 0.8   | 1.0   | 25             | 70     | -      | 0.025  |
| -55            | 100               | -     | 1.2   | 25             | 80     | -      | 100    |
|                |                   |       |       | 150            | 70     | -      | 5.0    |



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