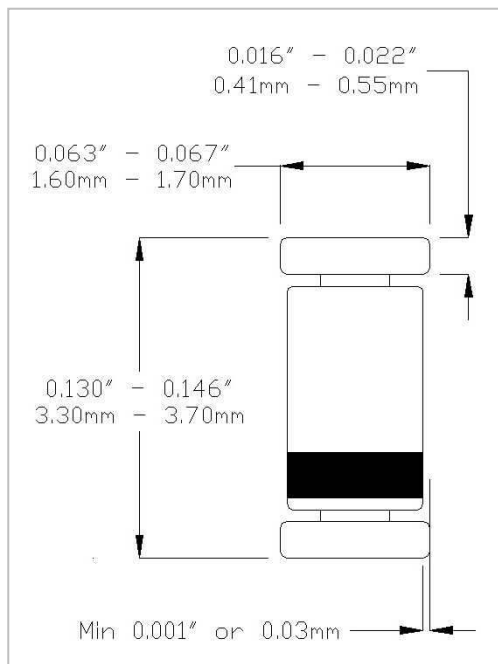


1N4531UR

FEATURES

- 1N4531UR AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/116
- 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 +200°C |
| Surge Current A, sine 8.3mS: | 1.0A |
| Surge Current B, square 8.3mS: | 0.704A |
| Total Power Dissipation: | 500mW |
| Operating Current: | 125mA, T _A = +25°C |
| Derating Factor: | 0.83mA/°C above T _A = +25°C |
| D.C. Reverse Voltage (VRWM): | 75V |

DC ELECTRICAL CHARACTERISTICS

| V _F | | | | I _R | | | | V _{BR} | | | |
|----------------|-------------------|-------|-------|----------------|--------|--------|--------|-----------------|-------------------|-------|-------|
| Ambient (°C) | I _F mA | Min V | Max V | Ambient (°C) | V (dc) | Min μA | Max μA | Ambient (°C) | I _R μA | Min V | Max V |
| 25 | 10 | - | 0.8 | 25 | 20 | - | 0.025 | 25 | 100 | 100 | - |
| 25 | 100 | - | 1.2 | 25 | 75 | - | 0.500 | | | | |
| 150 | 10 | - | 0.8 | 150 | 20 | - | 35.0 | | | | |
| -55 | 100 | - | 1.3 | 150 | 75 | - | 75.0 | | | | |

DESIGN DATA

Case: Hermetically sealed glass package per MIL-PRF-19500/116 DO-213AA outline

Lead Material: Copper clad steel

Lead Finish: Tin/Lead

Thermal Resistance (R_{θJEC}): 100°C/W maximum

Thermal Impedance (Z_{θJX}): 70°C/W maximum

Polarity: Cathode end is banded.

AC ELECTRICAL CHARACTERISTICS AT 25°C

| | Symbol | Min | Max |
|--|--------|-----|-----|
| Capacitance @ 0V | pF | - | 4 |
| Capacitance @ 1.5V | pF | - | 2.8 |
| T _{RR} @ I _F =I _R =10mA, I _{Rec} = 1mA. | nsec | - | 5 |
| T _{FR} @ IF = 50mA | nsec | - | 20 |
| V _{FR} @ IF = 50mA | V(pk) | - | 5 |



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