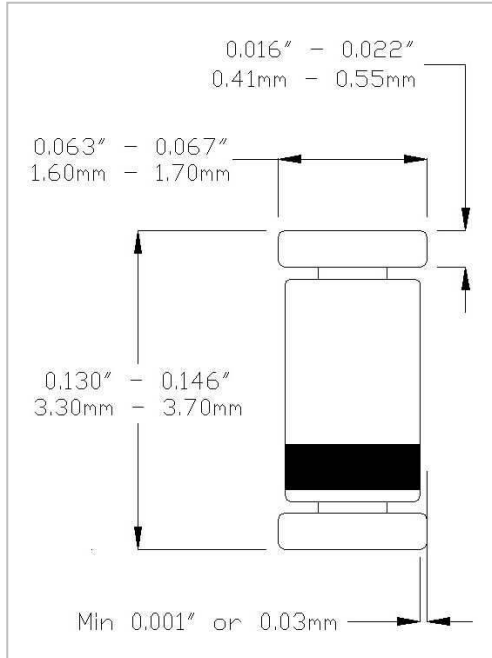


1N4454UR-1

FEATURES

- 1N4454UR-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/144
- SWITCHING DIODE
- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION
- ALSO AVAILABLE AS LL4454, CDLL4454, & MLL4454



MAXIMUM RATINGS AT 25 °C

| | |
|------------------------------|--|
| Operating Temperature: | -55°C to +175°C |
| Storage Temperature: | -55°C to +175°C |
| Surge Current, Sine, 1uS: | 4.0A |
| Total Power Dissipation: | 500mW |
| Operating Current: | 200mA, T _A = +25°C |
| Derating Factor: | 1.33mA/°C above T _A = +25°C |
| D.C. Reverse Voltage (VRWM): | 50V |

DC ELECTRICAL CHARACTERISTICS

| Ambient (°C) | V _F | | | Ambient (°C) | I _R | | | Ambient (°C) | V _{BR} | | |
|--------------|-------------------|-------|-------|--------------|----------------|--------|--------|--------------|-------------------|-------|-------|
| | I _F mA | Min V | Max V | | V (dc) | Min μA | Max μA | | I _R μA | Min V | Max V |
| 25 | 10 | - | 1.0 | 25 | 50 | - | 0.1 | 25 | 5 | 75 | - |
| 150 | 10 | - | 0.7 | 150 | 50 | - | 100 | -55 | 10 | 75 | - |

DESIGN DATA

Case: Hermetically sealed glass package per MIL-PRF-19500/144 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 | - | 2.0 |
| T _{RR} @ I _F =I _R =10mA, I _{rec} = 1mA. | nsec | - | 4.0 |
| T _{FR} @ IF = 100mA | nsec | - | 30 |
| V _{FR} @ IF = 100mA | V(pk) | - | 5 |



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