

SWITCHING DIODE – METALLURGICALLY BONDED
 – HERMETICALLY SEALED
 – DOUBLE PLUG CONSTRUCTION

Qualified per MIL-PRF-19500/241

DEVICES

1N3595AUR-1 LL3595A MLL3595A

LEVELS
JAN
JANTX
JANTXV

MAXIMUM RATING 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 1µS: 4A
 Total Power Dissipation: 500mW
 Operating Current: 150mA, T_A = +25°C
 D.C. Reverse Voltage (VRWM): 125V



DC ELECTRICAL CHARACTERISTICS

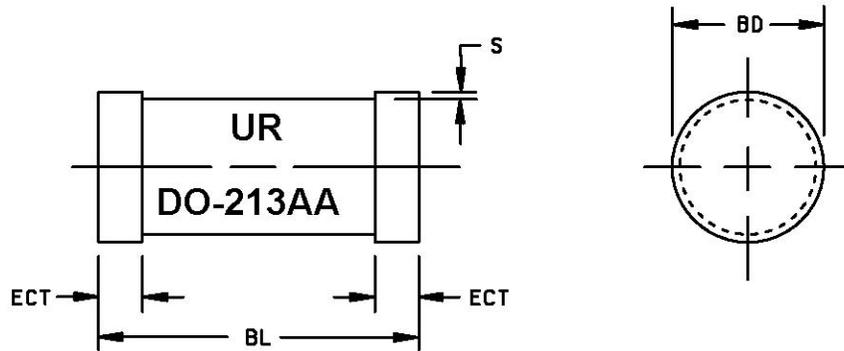
| V _F | | | | I _R | | | | V _{BR} | | | |
|----------------|-------------------|-------|-------|----------------|-----------------------|--------|--------|-----------------|-------------------|-------|-------|
| Ambient (°C) | I _F mA | Min V | Max V | Ambient (°C) | V _R V (dc) | Min µA | Max µA | Ambient (°C) | I _R µA | Min V | Max V |
| 25 | 1 | 0.52 | 0.70 | 25 | 125 | - | 0.002 | -55 | 100 | 150 | - |
| 25 | 5 | 0.60 | 0.765 | 150 | 125 | - | 3 | | | | |
| 25 | 10 | 0.65 | 0.80 | | | | | | | | |
| 25 | 50 | 0.74 | 0.88 | | | | | | | | |
| 25 | 100 | 0.79 | 0.92 | | | | | | | | |
| 25 | 200 | 0.83 | 1.00 | | | | | | | | |

DO-213AA

AC ELECTRICAL CHARACTERISTICS AT 25°C

| | Min | Max | Unit |
|---|-----|-----|------|
| Capacitance @ 0V | - | 8.0 | pF |
| T _{RR} @ I _F = 10mA V _R = 35V | - | 3.0 | µsec |

PACKAGE DIMENSIONS



NOTE:

1. Dimensions are in inches.
2. Millimeters are given for general information only.
3. Dimensions are pre-solder dip.
4. Referencing to dimension S, minimum clearance of glass body to mounting surface on all orientations.
5. In accordance with ASME Y14.5M, diameters are equivalent to ϕ x symbology.

| Ltr | Dimensions | | | | Notes |
|-----|------------|------|-------------|------|-------|
| | Inches | | Millimeters | | |
| | Min | Max | Min | Max | |
| BD | .063 | .067 | 1.60 | 1.70 | |
| BL | .130 | .146 | 3.30 | 3.70 | |
| ECT | .016 | .022 | 0.41 | 0.55 | |
| S | .001 Min | | 0.03 Min | | |

DESIGN DATA

Case: Hermetically sealed glass package per MIL-PRF-19500/241 DO-213AA outline

Lead Material: Copper clad steel

Lead Finish: Tin / Lead

Thermal Impedance ($Z_{\theta JX}$): 70°C/W maximum

Polarity: Cathode end is banded

FIGURE 1. Physical dimensions - 1N3595UR-1, 1N3595AUR-1 (DO-213AA)