

TECHNICAL DATA
DATA SHEET 5077, REV. B.1

AVAILABLE AS
1N, JAN, JANTX, JANTXV
JANS
JAN EQUIVALENT*
SJ*, SX*, SV*
SS

Standard Recovery Rectifiers

Qualified per MIL-PRF-19500/590

DESCRIPTION:

This voidless hermetically sealed standard recovery rectifier diode series is military qualified per MIL-PRF-19500/590 and is targeted for space, commercial and military aircraft, military vehicles, shipboard markets and all high reliability applications.

FEATURES / BENEFITS:

- ✓ Hermetic, non-cavity glass package
- ✓ Category I Metallurgically bonded
- ✓ Parts are hot solder dipped
- ✓ JAN/ JANTX/ JANTXV available per MIL-PRF-19500/590

MAXIMUM RATINGS

- ✓ Operating and Storage Temperature: -65°C to +175°C
- ✓ Junction Temperature: -65°C to +155°C

ELECTRICAL CHARACTERISTICS

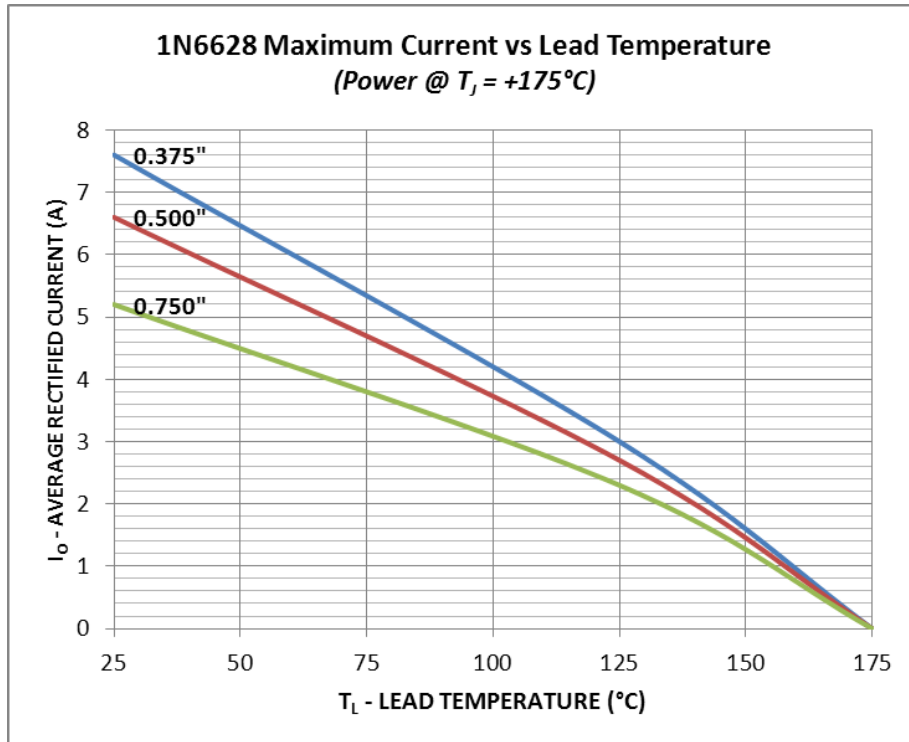
| Rating | Symbol | Condition | Max | Units |
|--|-----------------|------------------------------|---|------------------|
| WORKING PEAK REVERSE VOLTAGE 1N6626, U, US 1N6627, U, US 1N6628, U, US 1N6629, U, US 1N6630, U, US 1N6631, U, US | V_{RWM} | | 200 400 600 800 900 1000 | Volts |
| AVERAGE RECTIFIED FORWARD CURRENT 1N6626 thru 1N6628 1N6629 thru 1N6631 | I_o | $T_L = 75^\circ\text{C}$ | 2.3 1.8 | Amps |
| AVERAGE RECTIFIED FORWARD CURRENT 1N6626U, US thru 1N6628U, US 1N6629U, US thru 1N6631U, US | I_o | $T_{EC} = 110^\circ\text{C}$ | 4.0 2.8 | Amps |
| PEAK FORWARD SURGE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US | I_{FSM} | $T_p = 8.3\text{ms}$ | 75 60 | A(pk) |
| MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US | $I_R @ V_{RWM}$ | $T_j = 25^\circ\text{C}$ | 2.0 4.0 | μAmps |
| MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US | $I_R @ V_{RWM}$ | $T_j = 150^\circ\text{C}$ | 500 600 | μAmps |

*Sensitron equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.

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| Rating | Symbol | Condition | Max | Units |
|--|-------------------|----------------------------------|----------------------|---------------|
| MAX. PEAK FORWARD VOLTAGE (PULSED) 1N6626, U, US thru 1N6628,U, US 1N6629,U, US to 1N6630,U, US 1N6631, U, US | V_{FM} | $I_F=4A$ $I_F=3A$ $I_F=2A$ | 1.50 1.70 1.95 | Volts |
| PEAK RECOVERY CURRENT 1N6626, U, US thru 1N6628,U, US 1N6629,U, US to 1N6630,U, US 1N6631, U, US | I_{RM} | $I_F=2A,$ $100A/\mu$ | 3.5 4.2 5.0 | A(pk) |
| MAXIMUM REVERSE RECOVERY TIME 1N6626, U, US thru 1N6628,U, US 1N6629,U, US to 1N6630,U, US 1N6631, U, US | T_{rr} | $I_F=0.5A$ $I_{RM}=1.0A$ | 30 50 60 | ns |
| FORWARD RECOVERY VOLTAGE 1N6626, U, US thru 1N6628,U, US 1N6629,U, US to 1N6630,U, US 1N6631, U, US | V_{FRM} | $I_F=1A$ $t_r=12ns$ | 8 12 20 | Volts |
| THERMAL RESISTANCE (Axial) 1N6626 thru 1N6631 | $R_{\theta_{JL}}$ | $L=.375$ | 22 | $^{\circ}C/W$ |
| THERMAL RESISTANCE (MELF) 1N6626U, US thru 1N6631U, US | $R_{\theta_{JC}}$ | $L=0$ | 6.5 | $^{\circ}C/W$ |

GRAPHS

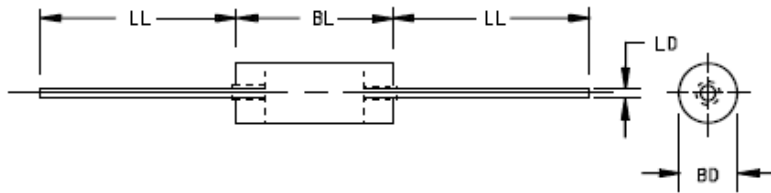


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PACKAGE DIMENSIONS (inches/mm)

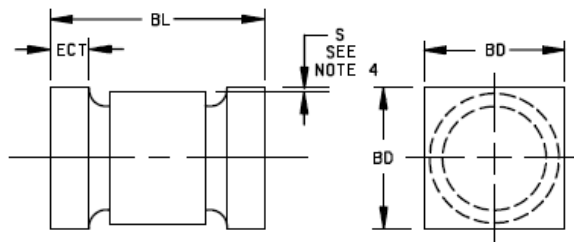
MECHANICAL DIMENSIONS In Inches / (mm)

AXIAL



| Ltr | Dimensions | | | | |
|-----|------------|-------|-------------|-------|-------|
| | Inches | | Millimeters | | Notes |
| | Min | Max | Min | Max | |
| BD | .115 | .137 | 2.92 | 3.48 | 4 |
| BL | .130 | .300 | 3.30 | 7.62 | 3 |
| LD | .037 | .042 | 0.94 | 1.07 | 3 |
| LL | .900 | 1.300 | 22.86 | 33.02 | |

MELF



| Ltr | Dimensions | | | |
|-----|---------------------------------|------|-------------|------|
| | 1N6626U, US through 1N6631U, US | | | |
| | Inches | | Millimeters | |
| | Min | Max | Min | Max |
| BL | .200 | .225 | 5.08 | 5.72 |
| BD | .137 | .148 | 3.48 | 3.78 |
| ECT | .019 | .028 | 0.48 | 0.71 |
| S | .003 | | 0.08 | |

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PART ORDERING INFORMATION

The following part numbers can be screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

| Sensitron Screening Level | *Part Number-- Leaded Package (example for 1N6626) |
|---------------------------|--|
| 1N | 1N6626 |
| JAN | JAN1N6626 |
| SJ | SJ6626 |
| JANTX | JANTX1N6626 |
| SX | SX6626 |
| JANTXV | JANTXV1N6626 |
| SV | SV6626 |
| JANS | JANS1N6626 |
| SS | SS6626 |

*Parts can also be ordered Tape & Reel

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