

1N3611 thru 1N3614 and 1N3957
STANDARD RECOVERY
RECTIFIERS

TECHNICAL DATA DATA SHEET 128, REV. A.2

AVAILABLE AS 1N, JAN, JANTXV

Standard Recovery Rectifiers

Qualified per MIL-PRF-19500/228

DESCRIPTION:

This voidless hermetically sealed standard recovery rectifier diode series is military qualified per MIL-PRF-19500/228 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
- ✓ All devices are 100% hot solder dipped
- ✓ JAN/ JANTX/ JANTXV available per MIL-PRF-19500/228

MAXIMUM RATINGS

- ✓ Operating and Storage Temperature: -65°C to +175°C
- ✓ Thermal Resistance: 38 °C (junction to lead)
- ✓ Forward surge current: 30A @ 8.3 ms halfsine

ELECTRICAL CHARACTERISTICS

TYPE NUMBER	PEAK INVERSE VOLTAGE	AVG RECTIFIED CURRENT Amps	MAXIMUM REVERSE CURRENT @ PIV μAmps		MAX. PEAK FORWARD VOLTAGE (PULSED) V _F @ 1A	MAXIMUM SURGE CURRENT ¹ I _{FSM}	MAXIMUM REVERSE RECOVERY TIME ² T _{rr}
	Volts	55°C	25°C	150°C	V	Amps	nsec
1N3611 1N3612 1N3613 1N3614 1N3957	200 400 600 800 1000	1.0	1.0	300	1.1	30	5000

Note 1: I_o = 1A, 8ms surge

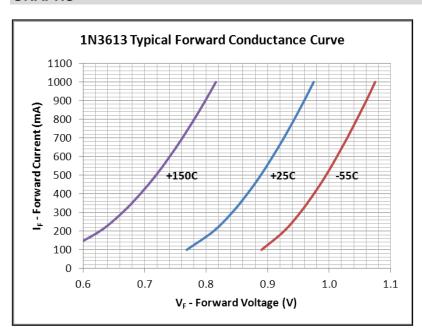
Note 2: I_F =0.5A, $I_{r(REC)}$ =.250A

^{*}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.

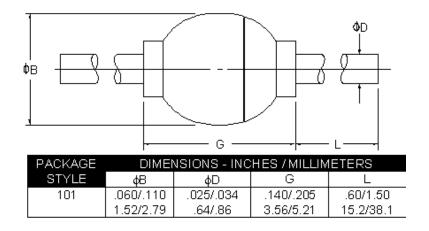
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GRAPHS



PACKAGE DIMENSIONS (inches/mm)



PKG. 101

Note: The cathode side is marked with a dark colored band on the diode body.



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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 1N3611)			
1N	1N3611			
JAN	JAN1N3611			
JANTX	JANTX1N3611			
JANTXV	JANTXV1N3611			

^{*}Parts can also be ordered Tape & Reel

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