

TECHNICAL DATA
DATA SHEET 128, REV. A.1

AVAILABLE AS

JAN
JANTX
JANTXV
JAN EQUIVALENT* :
SJ36XX*
SX36XX*
SV36XX*

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
- ✓ 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 half-sine

ELECTRICAL CHARACTERISTICS

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

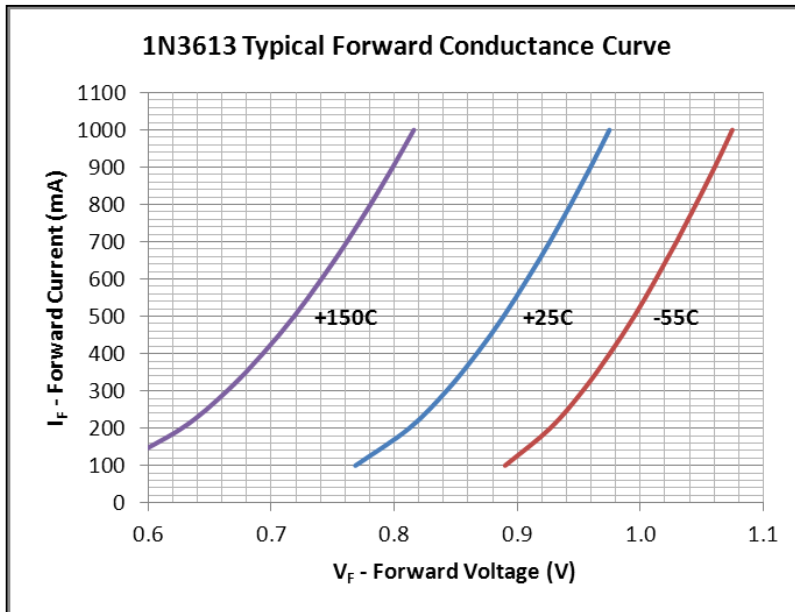
Note 1: I_o = 1A, 8ms surge

Note 2: I_F=0.5A, I_{RM}=1A, I_{r(REC)}=.250A

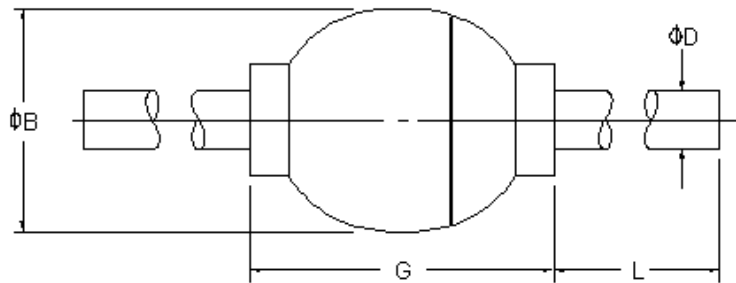
*Sensitron equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.

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GRAPHS



PACKAGE DIMENSIONS (inches/mm)



PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	ϕB	ϕD	G	L
101	.060/.110 1.52/2.79	.025/.034 .64/.86	.140/.205 3.56/5.21	.60/1.50 15.2/38.1

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
SJ	SJ3611
JANTX	JANTX1N3611
SX	SX3611
JANTXV	JANTXV1N3611
SV	SV3611

*Parts can also be ordered Tape & Reel

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