1N5802/US thru 1N5806/US
ULTRAFAST RECOVERY

RECTIFIERS

TECHNICAL DATA DATA SHEET 158, REV. F.4

AVAILABLE AS
1N, JAN, JANTXV
JANS

Ultrafast Recovery Rectifiers

Qualified per MIL-PRF-19500/477

DESCRIPTION:

This voidless hermetically sealed ultrafast recovery rectifier diode series is military qualified per MIL-PRF-19500/477 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-19500/477

MAXIMUM RATINGS

- ✓ Operating and Storage Temperature: -65°C to +175°C
- ✓ Thermal Resistance: 36 °C (junction to lead)
- ✓ Thermal Resistance: 13 °C (junction to endcap)
- ✓ Forward surge current: 35A @ 8.3 ms half-sine

ELECTRICAL CHARACTERISTICS

TYPE NUMBER	WORKING PEAK REVERSE VOLTAGE	AVG RECTIFIED CURRENT ¹	MAXIMUM REVERSE CURRENT @ PIV		MAX. PEAK FORWARD VOLTAGE (PULSED)	MAXIMUM SURGE CURRENT ² I _{FSM}	MAXIMUM REVERSE RECOVERY TIME ³
		Amps	μAn	nps	V _F @ 1A		T _{rr}
	Volts	55°C	25°C	125°C	V	Amps	nsec
1N5802/US 1N5804/US 1N5806/US	50 100 150	2.5	1	175	.875	35	25

Note 1: $T_{EC} = T_L$ at L=0 or $T_{end \, tab} f$ or US suffix devices. Derate at 25mA/°C for T_L above 75°C.

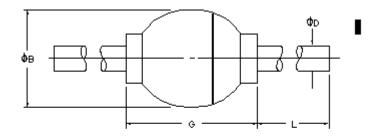
Note 2: $I_o = 1A$, 8ms surge

Note 3: I_F =0.5A, $I_{r(REC)}$ =.25A

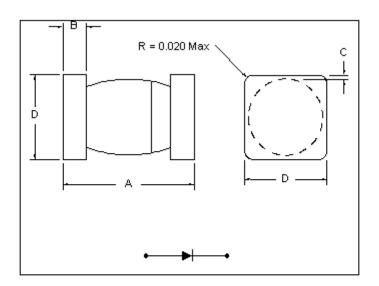
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PACKAGE DIMENSIONS (inches/mm)



PACKAGE	DIMENSIONS - INCHES / MILLIMETERS			
STYLE	∳B	∳D	G	L
106	.065/.085 1.65/2.16	.027/.032 .69/.81	.125/.250 3.18/6.35	.700/1.30 17.78/33.02



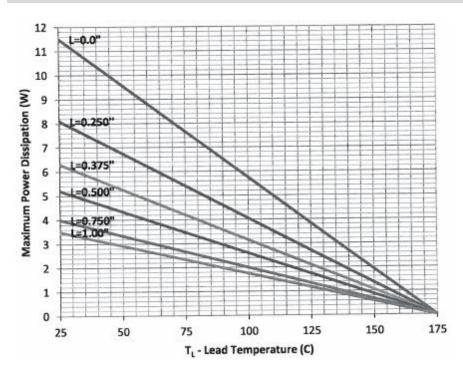
PACKAGE	DIMENSIONS - INCHES / MILLIMETERS				
STYLE	Α	В	С	D	
MELF-A	.168/.200	0.019/.028	.003 Min	.091/.103	
	4.27/5.08	.48/.71	.08 Min	2.31/2.62	

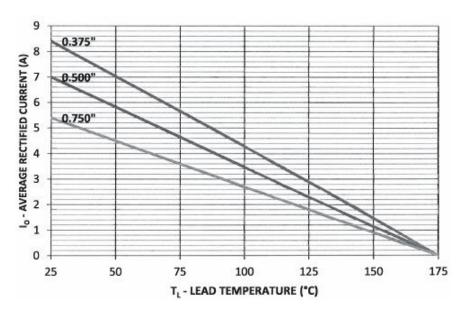
Note: The cathode side is marked with a dark colored band on one side of the diode body.

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GRAPHS:







1N5802/US thru 1N5806/US

ULTRAFAST RECOVERY

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PART ORDERING INFORMATION

The following part numbers can be purchased in either axial or surface mount devices and screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

military screening now. The parts are marked in accordance with the testing performed, example.				
Sensitron Screening Level	*Part Number	*Part Number		
_	Leaded Package	Surface Mount Package		
	(example for 1N5802)	(example for 1N5802US)		
1N	1N5802	1N5802US		
JAN	JAN1N5802	JAN1N5802US		
JANTX	JANTX1N5802	JANTX1N5802US		
JANTXV	JANTXV1N5802	JANTXV1N5802US		
JANS	JANS1N5802	JANS1N5802US		

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

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
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JANTX1N4468 JANTX1N5550US JANS1N6328US JANS1N4469US JANS1N4479US JANTX1N4245 IN5622JANTX IN5642AJANTX

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1N5806USJANTX IN5621 IN6642USJANTX JANTX1N4972US JANS1N6640 IN5811USJANTX IN5802USJANTXV JANTX1N5650A

JANTX1N4963