

1N5807/US, 1N5809/US, 1N5811/US

ULTRAFAST RECOVERY RECTIFIERS

TECHNICAL DATA DATA SHEET 127, REV. H.6

AVAILABLE AS

1N, JAN, JANTX, JANTXV

JANS

JAN EQUIVALENT*

SJ*, SX*, SV*, SS*

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 commercial and military aircraft, military vehicles, shipboard markets, space and all other 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: 22 °C (junction to lead)
- ✓ Thermal Resistance: 6.5 °C (junction to endcap)
- ✓ Forward surge current:125A @ 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 @ 4A		T_{rr}
	Volts	55°C	25°C	125°C	V	Amps	nsec
1N5807/US 1N5809/US 1N5811/US	50 100 150	6.0	5	525	.875	125	30

Note 1: $T_{EC} = T_L$ at L=0 or $T_{end \, tab}$ f or US suffix devices. Derate at 60mA/°C for T_L above 75°C.

Note 2: $I_0 = 3A$, 8.3ms surge

Note 3: $I_F=1A$, $I_{RM}=1A$, $I_{R(REC)}=.10A$

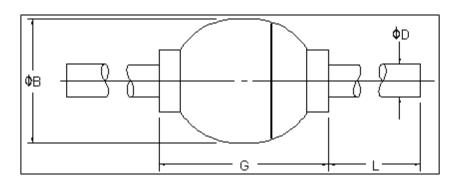
*Sensitron **space equivalent diodes** are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.

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PACKAGE DIMENSIONS (inches/mm)

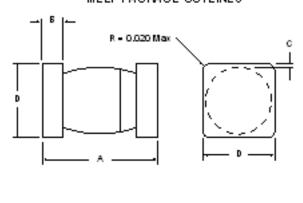
AXIAL



	PACKAGE	DIMENS	DIMENSIONS - INCHES (MILLIMETERS)				
ı	STYLE	ф⊟	φD	G	L		
	304	.115/.142 2.92/3.61	.036/.042 .94/1.07	.130/.300 3.30/7.62	.90/1.30 22.9/33.0		

MELF (Add "US" to Part Number)

MELF PACKAGE OUTLINES



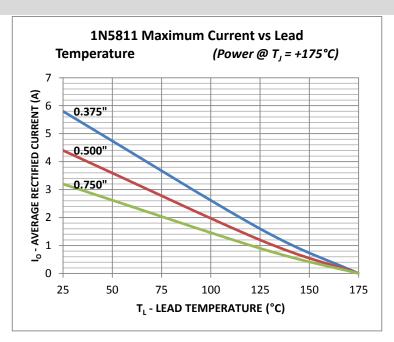


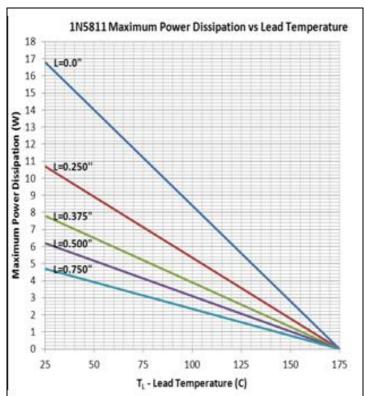
PACKAGE **DIMENSIONS - INCHES / MILLIMETERS** STYLE А В С D MELF-B .2007.225 0.019/.028 .003 Min .137/.148 5.0/5.8 .48/.72 .076 Min 3.4/3.8

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GRAPHS:







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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:

*Available with silver leads (SS5811-AG).

	Available with silver leads (0000)				
Sensitron Screening Level	*Part Number Leaded Package (example for 1N5811)	*Part Number Surface Mount Package (example for 1N5811US)			
1N	1N5811	1N5811US			
JAN	JAN1N5811	JAN1N5811US			
JANTX	JANTX1N5811	JANTX1N5811US,			
JANTXV	JANTXV1N5811	JANTXV1N5811US			
SJ	SJ5811	SJ5811US			
SX	SX5811	SX5811US			
sv	SV5811	SV5811US			
JANS	JANS1N5811	JANS1N5811US			
SS	SS5811	SS5811US			

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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Other Similar products are found below:

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1N5811USJANTX JANTX1N4487 JANTX1N4468 JANTX1N5550US JANS1N6328US JANS1N4469US JANS1N4479US JANTX1N4245

1N5622JANTX 1N5642AJANTX JANTX1N4973 1N5804US JANTX1N5635A JANTX1N4970 JANS1N4972 1N5621USJANTX

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1N5802USJANTXV JANTX1N5650A JANTX1N4963