

6 Amp Voidless Fast**1N5807
thru
1N5811****Switching Rectifiers**

Applications

Hard Glass Tungsten

For use in hostile environments such as military and aerospace.

Used where performance, surge and small footprint are important.

These rectifiers are ideal for use in aircraft or satellite power supplies.

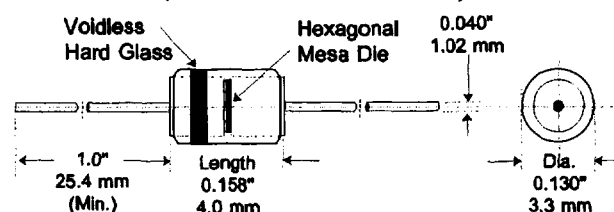
Checked items (✓) are available in JAN / TX / TXV per MIL-S-19500 / 477.

The family can be processed to S level with source control drawings.

Features

- Six Sigma quality
- High surge capability
- Microminiature package
- Humidity proof hard glass
- No thermal fatigue
- Metallurgically bonded
- Thermally matched system
- Zero solderability defects
- Sigma Bond™ plated contacts

B Body Tungsten Voidless Glass Package (nominal dimensions)



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at 3/8" from the body, $T_L = 75^\circ\text{C}$	P_{tot}	5.0	Watts
Average Forward Rectified Current at $T_L = 75^\circ\text{C}$	I_{AV}	6.0	Amps
Junction & Storage Temperature Range	$T_{J\&S}$	-65 to +200	$^\circ\text{C}$
Maximum Non Repetitive Surge (8.3ms)	I_{FSM}	125	Amps
Thermal Resistance at 3/8" from the body, $T_L = 75^\circ\text{C}$	$R_{\theta JL}$	35	$^\circ\text{C/W}$

Characteristics at $T = 25^\circ\text{C}$

Type	Peak Inverse Voltage (MIN.) (PIV) Volts	Breakdown Voltage (MIN.) @ 100 μA (B_V) Volts	Maximum Average Rectified Current (I_O) @ 75°C Amps	Maximum Forward Voltage Drop (V_F) @ 4A Volts	Maximum Reverse Leakage Current (I_R) @ PIV		Maximum Surge Current (I_{FSM}) Amps	Typical Junction Capacitance @ -10V (C_O) pF	Maximum Reverse Recovery (NOTE 1) (t_{rr}) nS
1N5807 ✓	50	55	6.0	0.875	5	150	125	45	30
1N5808	75	80	6.0	0.875	5	150	125	45	30
1N5809 ✓	100	110	6.0	0.875	5	150	125	45	30
1N5810	125	135	6.0	0.875	5	150	125	45	30
1N5811 ✓	150	160	6.0	0.875	5	150	125	45	30

Note 1: $I_F = I_R = 1.0\text{A}$, t_{rr} @ 0.1A

To order MIL parts, use the above ✓ numbers with the desired JAN, JTX or JTXV prefix.

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