



AMERICAN MICROSEMICONDUCTOR INC.

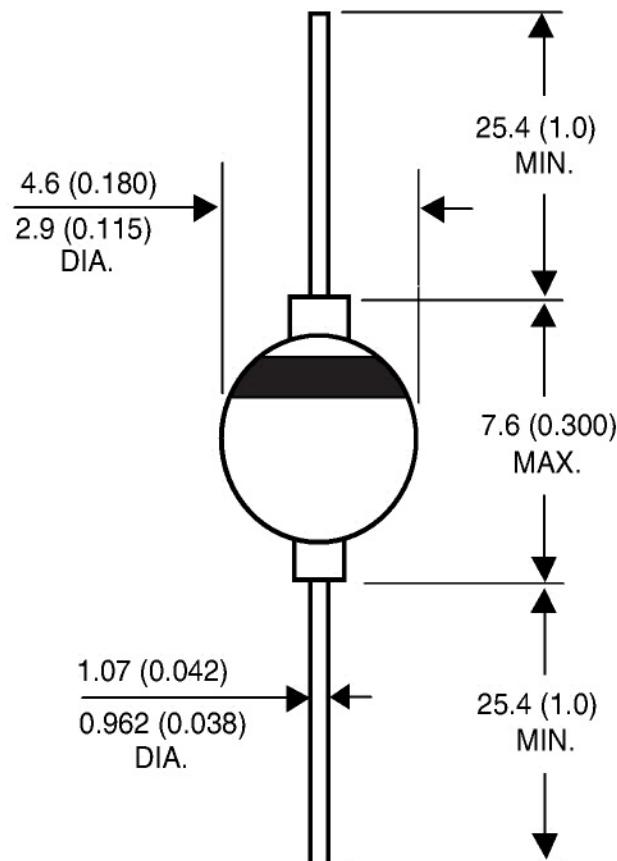
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Features

- High surge capability
- Microminiature package
- No thermal fatigue
- Metallurgically bonded
- Thermally matched system
- Zero solderability defects



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	$T_{\text{J&S}}$	-65 to +200	°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_{eJL}	35	°C/W

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

Type	Peak Inverse Voltage (PIV)	Breakdown Voltage (B _V)	Maximum Average Rectified Current @ 100µA	Maximum Forward Voltage Drop (I _O) @ 75°C	Maximum Reverse Leakage Current (I _R) @ PIV	Maximum Surge Current (I _{FSM})	Typical Junction Capacitance @ -10V (C ₀)	Maximum Reverse Recovery (t _{rr}) (NOTE 1)
	Volts	Volts	Amps	Volts	µA	µA	pF	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: $I_F = I_R = 1.0\text{A}$, $t_{rr} @ 0.1\text{A}$