

SS5550/US SS55551/US SS5552/US SS5553/US SS5554/US

TECHNICAL DATA DATA SHEET 5108, REV -

HIGH CURRENT AXIAL LEAD RECTIFIERS

DESCRIPTION: 200-1000 VOLT, 3.0 AMP, 2000 NANOSECOND RECTIFIER

-Suffix "US" denotes melf/surface mount packaging

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^{\circ}C$ unless otherwise specified.

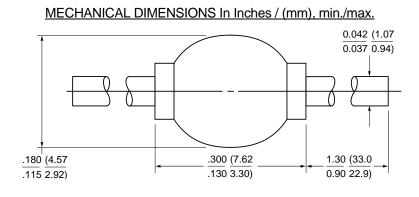
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV) 1N5550 1N5551 1N5552 1N5553 1N5554	-	-	-	200 400 600 800 1000	Vdc
Average DC Output Current (I_o)	T _A = +55 °C	-	-	3.0	Amps
Peak Single Cycle Surge Current (I _{fsm})	t _p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Operating and Storage Temp. (T _{op} & T _{sta})	-	-65	-	+175	°C
Maximum Forward Voltage (V _f) 1N5550 1N5551 1N5552 1N5553 1N5554	I _f = 9.0A (300 μsec pulse, duty cycle < 2%)	-	-	1.2 1.2 1.2 1.3 1.3	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^{\circ} C$ $T_A = 100^{\circ} C$	-	-	1.0 60	μAmps
Reverse Recovery Time (t _{rr})	$I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$	-	-	2000	nsec
Thermal Resistance (θ_{JL})	Junction to Lead d = 0.375"			22	°C/W
Thermal Resistance (θ_{JEC})	Junction to Endcap	-	-	6.5	° C/W

• 221 West Industry Court □ Deer Park, NY 11729 □ (631) 586 7600, FAX (631) 242 9798 •
• World Wide Web - www.sensitron.com • E-mail Address - sales@sensitron.com •



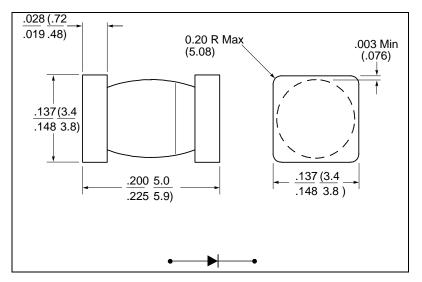
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Note: The cathode side is marked with a dark colored band on one side of the diode body.



MELF-B





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TECHNICAL DATA DATA SHEET 126, REV G

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