

SENSITRON **SEMICONDUCTOR**

1N5186
1N5187
1N5188
1N5190

TECHNICAL DATA
DATA SHEET 124, REV A

SJ SX SV

FAST RECOVERY RECTIFIERS

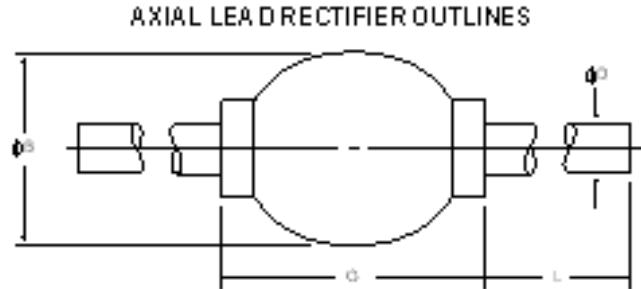
MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^\circ\text{C}$ unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV) 1N5186 1N5187 1N5188 1N5190	-	-	-	100 200 400 600	Vdc
Average DC Output Current (I_o)	$T_A = +25^\circ\text{C}$ $T_A = +150^\circ\text{C}$	-	-	3.0 0.7	Amps
Peak Single Cycle Surge Current (I_{fsm})	$t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	80	Amps(pk)
Operating and Storage Temp. (T_{op} & T_{stg})	-	-65	-	+175	$^\circ\text{C}$
Maximum Forward Voltage (V_f)	$I_f = 9\text{A}$ (300 μsec pulse, duty cycle < 2%)	.9	-	1.5	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	2.0 100	μAmps
Reverse Recovery Time (t_{rr}) 1N5186 1N5187 1N5188 1N5190	$I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$	-	-	150 200 250 400	nsec
Thermal Resistance (θ_{JL})	$d = 0.375''$	-	-	20	$^\circ\text{C/W}$

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Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	ϕB	ϕD	G	L
303	.110/.180	.037/.042	.130/.260	.90/1.30
	2.79/4.57	.94/1.07	3.30/6.60	22.9/33.0

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