

High-reliability discrete products and engineering services since 1977

1N5186-1N5190

FAST RECOVERY RECTIFIERS DIODES

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Peak Inverse Voltage	Туре		
100 V	1N5186		
200 V	1N5187		
400 V	1N5188		
600 V	1N5190		
Maximum Average D.C. Output Current @ T _A = 25°C	3.0 A		
T _A = 150°C	0.7 A		
Non-Repetitive Sinusoidal Surge Current (8.3ms)	80 A		
Operating Temperature Range	-65 to + 175°C		
Storage Temperature Range	-65 to + 200°C		
Thermal Resistance	See Lead Temperature Derating Curve		

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

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Туре	Peak Inverse Voltage	Minimum Reverse Breakdown Voltage @ 100 µA	Peak Forward Voltage @ 9A (pk) (8.3 ms)		Maximum Reverse DC Current @ PIV	
			Min	Max	25°C	100°C
1N5186	100 V	120 V	0.9 V	1.5 V	2μΑ	100μΑ
1N5187	200 V	240 V				
1N5188	400 V	480 V				
1N5190	600 V	660 V				

Туре	Reverse Recovery Time *	Capacitance @ $V_R = 0 V$, f = 1MHz	Capacitance @ V _R = 4 V, f = 1MHz
1N5186	150 ns	300 pF	200 pF
1N5187	200 ns	300 pF	170 pF
1N5188	250 ns	230 pF	120 pF
1N5190	400 ns	180 pF	90 pF

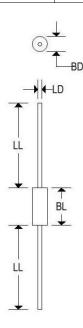
[•] Recovery time measured from $I_F = 0.5$ A to $I_R = 1.0$ A, $I_{REC} = 0.25$ A



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MECHANICAL CHARACTERISTICS

Case:	Digi B
Marking:	Body painted, alpha-numeric
Polarity:	Cathode band



	Digi B				
	Inches		Millimeters		
	Min	Max	Min	Max	
BD		0.135) je	3.429	
BL	- W	0.250	le .	6.350	
LD	0.038	0.042	0.965	1.067	
LL	0.975	120	24.765	- 1	

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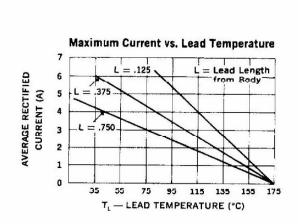
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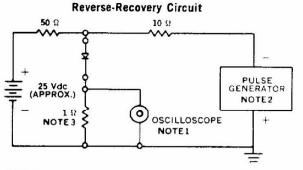


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NOTES:

- 1. Oscilloscope: Rise time ≤ 3ns; input impedance = 50Ω.
- 2. Pulse Generator: Rise time ≤ 8ns; source impedance 10Ω.
- 3. Current viewing resistor, non-inductive, coaxial recommended.

