

1N5615-1N5623

FAST RECOVERY RECTIFIERS

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

Operating Temperature	-65°C to +175°C
Storage Temperature:	-65°C to +200°C
Thermal Resistance:	-38°C/W
Surge Current:	25A

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

Type	Peak Inverse Voltage max. PIV	Breakdown Voltage min. B _v @ 50μA	Average Rectified Current I _o		Forward Voltage max. V _F @ 3A	Reverse Current max. I _R @ PIV		Capacitance max. C @ -12V	Surge Current max. (Note 1) I _F (surge)	Reverse Recovery max. (Note 2) t _{rr}	
			Amps			Volts	μA				
			55°C	100°C			25°C				100°C
1N5615	200	220	1.0	.750	0.8 min to 1.6 max	.5	25	45	25	150	
1N5617	400	440	1.0	.750		.5	25	35	25	150	
1N5619	600	660	1.0	.750		.5	25	25	25	250	
1N5621	800	880	1.0	.750		.5	25	20	25	300	
1N5623	1000	1100	1.0	.750		.5	25	15	25	500	

Note 1: T_A = 100°C, f = 60Hz, I_o = 750 mA, 10-8 msec surges @ 1/minute

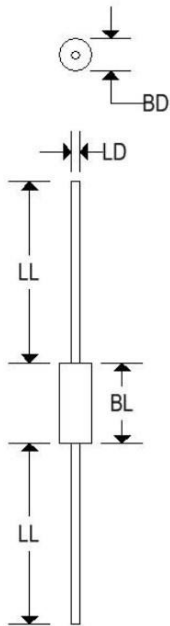
Note 2: I_F = 0.5A, I_{RM} = 1A, i_{R(REC)} = .250A

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MECHANICAL CHARACTERISTICS

Case:	Digi DD
Marking:	Alpha-numeric
Polarity:	Cathode band



	Digi DD			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.110	-	2.794
BL	0.125	0.205	3.175	5.207
LD	0.026	0.033	0.660	0.838
LL	1.000	1.500	25.400	38.100

BL includes slugs and uncontrolled area of the leads

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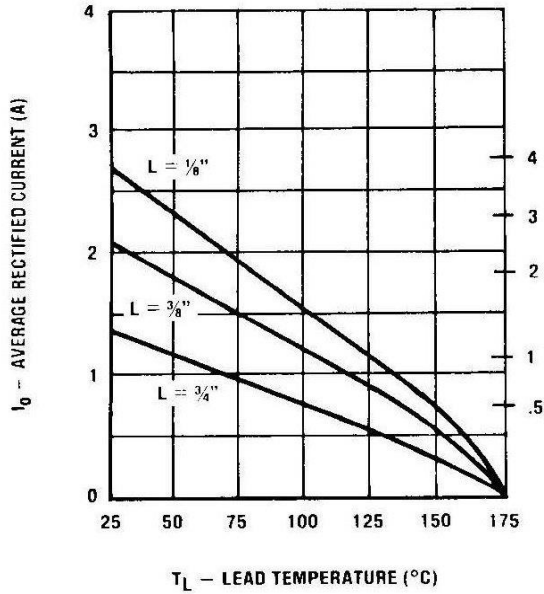


FIGURE 2
MAXIMUM CURRENT
vs LEAD TEMPERATURE

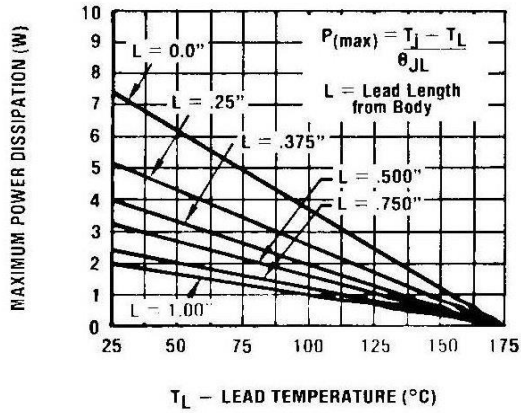


FIGURE 4
MAXIMUM POWER
vs. LEAD TEMPERATURE

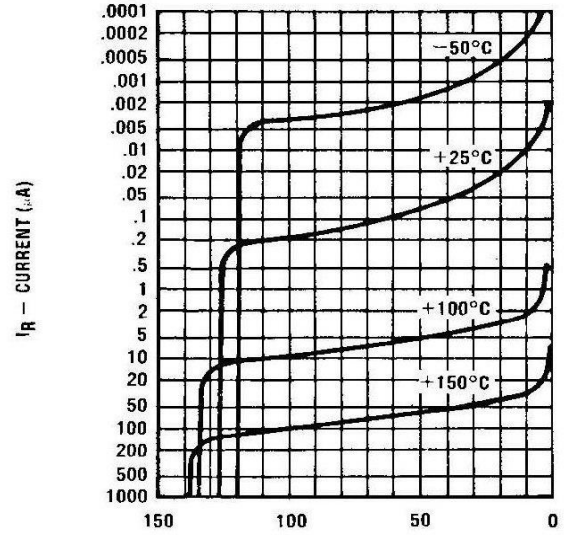


FIGURE 3
TYPICAL REVERSE CURRENT
vs. PIV

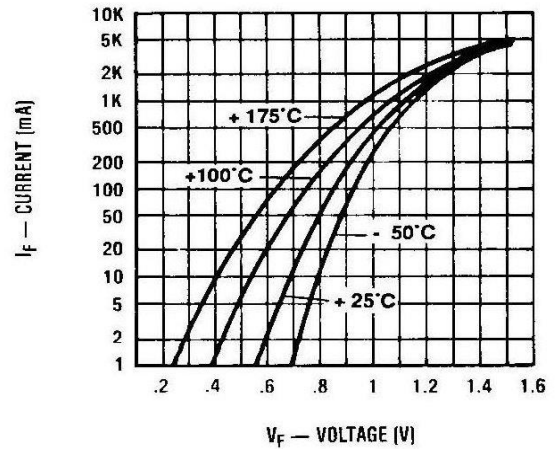


FIGURE 5
TYPICAL FORWARD VOLTAGE
vs. FORWARD CURRENT