

# 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<sub>A</sub> = 25°C unless otherwise specified)

Type	Peak Inverse Voltage max. PIV Volts	Breakdown Voltage min. B <sub>V</sub> @ 50μA Volts	Average Rectified Current I <sub>o</sub> Amps		Forward Voltage max. V <sub>F</sub> @ 3A Volts	Reverse Current max. I <sub>R</sub> @ PIV μA		Capacitance max. C @ -12V pF	Surge Current max. (Note 1) I <sub>F</sub> (surge) Amps	Reverse Recovery max. (Note 2) t <sub>rr</sub> n sec
			55°C	100°C		25°C	100°C			
			1N5615	200		220	1.0			
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<sub>A</sub> = 100°C, f = 60Hz, I<sub>o</sub> = 750 mA, 10-8 msec surges @ 1/minute

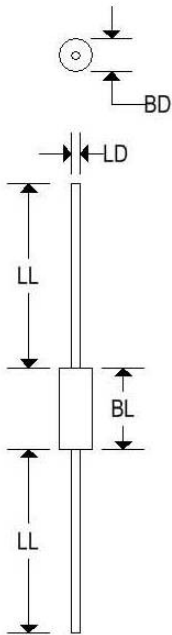
Note 2: I<sub>F</sub> = 0.5A, I<sub>RM</sub> = 1A, i<sub>R(REC)</sub> = .250A

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### MECHANICAL CHARACTERISTICS

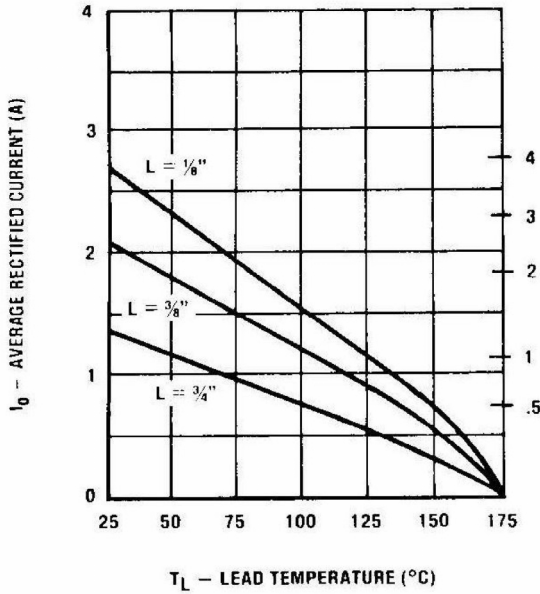
<b>Case:</b>	Digi A
<b>Marking:</b>	Body painted, alpha-numeric
<b>Polarity:</b>	Cathode band



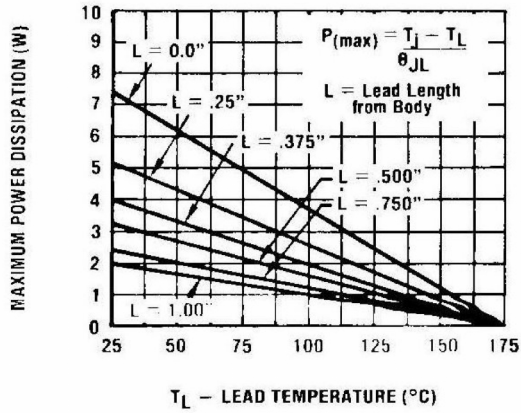
	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.095	-	2.413
BL	-	0.180	-	4.572
LD	0.028	0.032	0.711	0.813
LL	0.700	-	17.800	-

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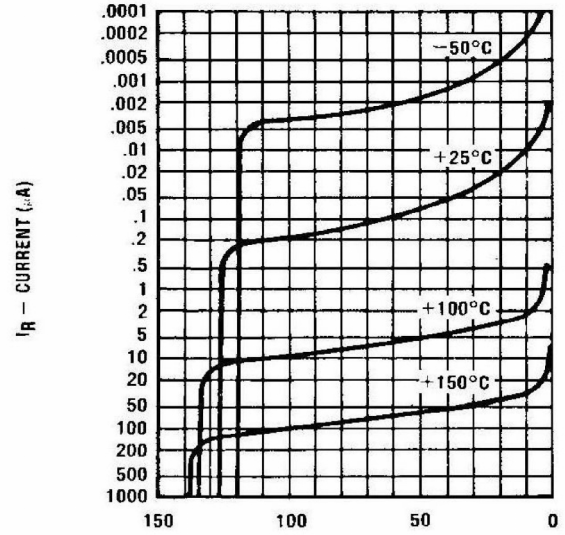
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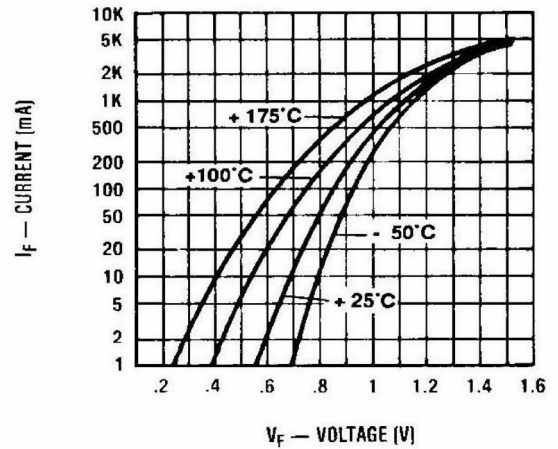
**FIGURE 2**  
MAXIMUM CURRENT  
vs LEAD TEMPERATURE



**FIGURE 4**  
MAXIMUM POWER  
vs. LEAD TEMPERATURE



**FIGURE 3**  
TYPICAL REVERSE CURRENT  
vs. PIV



**FIGURE 5**  
TYPICAL FORWARD VOLTAGE  
vs. FORWARD CURRENT