

# 1N6073-1N6081

## Ultra Fast Rectifiers

### FEATURES:

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix)
- Metallurgically bonded
- Ultra fast recovery

### MAXIMUM RATINGS

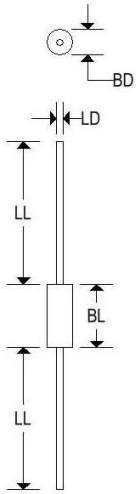
Operating and Storage Temperature:	-65°C to +155°C
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### ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted

Type	Peak Inverse Voltage PIV	Forward Voltage $V_f$ (Pulsed)	Average Rectified Current $I_o$	Reverse Current @ PIV $I_R$	Reverse* Recovery Time $t_{rr}$	Surge Current $I_f$ (SURGE)
	VOLTS	VOLTS	AMPS	$\mu$ A	ns	AMPS
1N6073	50	2.04	3.0	1.0	30	35
1N6074	100	2.04	3.0	1.0	30	35
1N6075	150	2.04	3.0	1.0	30	35
1N6076	50	1.76	6.0	5.0	30	75
1N6077	100	1.76	6.0	5.0	30	75
1N6078	150	1.76	6.0	5.0	30	75
1N6079	50	1.50	12.0	10.0	30	175
1N6080	100	1.50	12.0	10.0	30	175
1N6081	150	1.50	12.0	10.0	30	175

### MECHANICAL CHARACTERISTICS

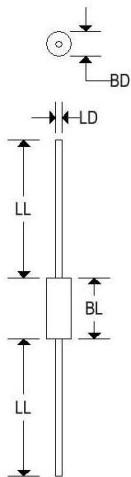
<b>Case</b>	Digi A (1N6073-1N6075)
<b>Marking</b>	Body painted, alpha-numeric
<b>Polarity</b>	Cathode band



	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.085	-	2.413
BL	-	0.180	-	4.572
LD	0.028	0.032	0.711	0.813
LL	0.700	-	17.800	-

### MECHANICAL CHARACTERISTICS

<b>Case</b>	Digi B (1N6076-1N6078)
<b>Marking</b>	Body painted, alpha-numeric
<b>Polarity</b>	Cathode band



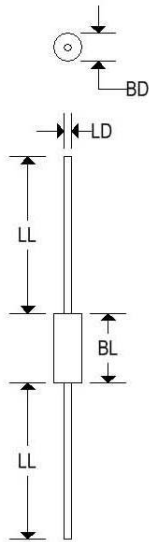
	Digi B			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.142	-	3.607
BL	-	0.250	-	6.350
LD	0.038	0.042	0.965	1.067
LL	0.975	-	24.765	-

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## Ultra Fast Rectifiers

### MECHANICAL CHARACTERISTICS

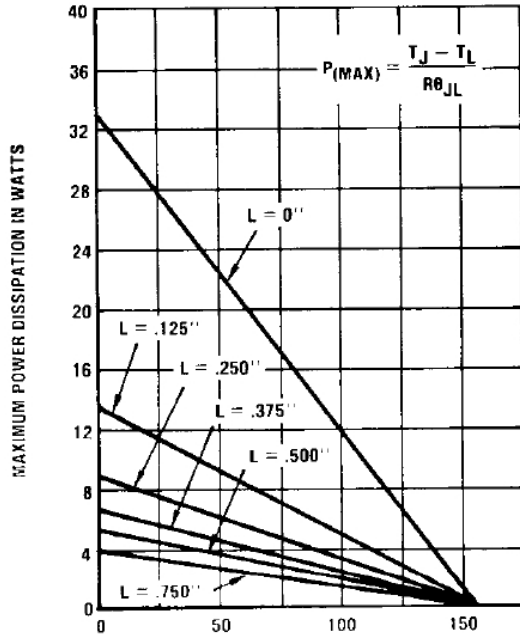
<b>Case</b>	Digi G (1N6079-1N6081)
<b>Marking</b>	Body painted, alpha-numeric
<b>Polarity</b>	Cathode band



	Digi G			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.135	0.185	3.430	4.700
BL	0.140	0.195	3.560	4.950
LD	0.036	0.042	0.910	1.067
LL	1.000	1.300	25.400	33.020

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## Ultra Fast Rectifiers

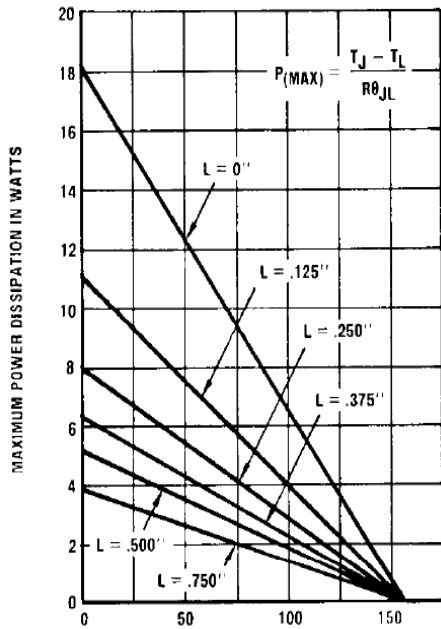


L	R <sub>θJL</sub>
Inches (mm)	°C/W
0.000	5.0
0.125 (3.17)	11.5
0.250 (6.35)	17.5
0.375 (9.53)	23.5
0.500 (12.70)	29.0
0.750 (19.05)	40.0

Maximum lead temperatures in °C (T<sub>L</sub>) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions)

Notes:  
Dimensions are in inches.  
Metric equivalents are based upon  
1 inch = 25.4 mm.

Maximum power in watts vs lead temperature for 1N6079, 1N6080 and 1N6081



L	R <sub>θJL</sub>
Inches (mm)	°C/W
0.000	8.5
0.125 (3.17)	14.0
0.250 (6.35)	19.5
0.375 (9.53)	25.0
0.500 (12.70)	30.0
0.750 (19.05)	40.0

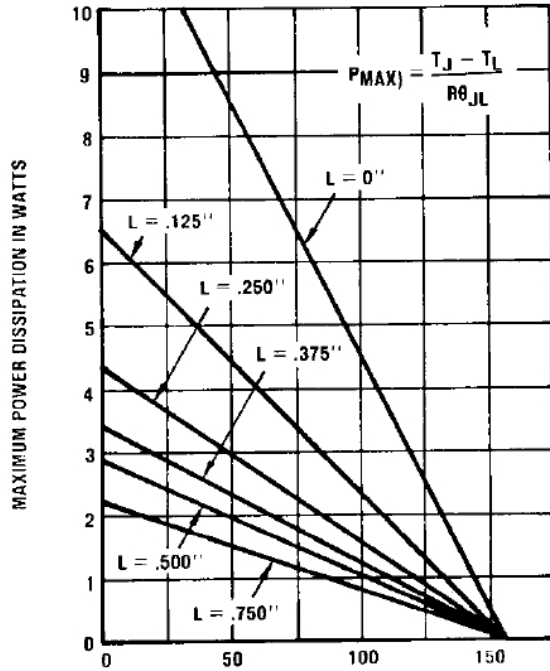
Maximum lead temperatures in °C (T<sub>L</sub>) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions)

Notes:  
Dimensions are in inches.  
Metric equivalents are based upon  
1 inch = 25.4 mm.

Maximum power in watts vs lead temperature for 1N6076, 1N6077 and 1N6078

# 1N6073-1N6081

## Ultra Fast Rectifiers



L	R <sub>θJL</sub>
Inches (mm)	°C/W
0.000	13
0.125 (3.17)	24
0.250 (6.35)	35
0.375 (9.53)	46
0.500 (12.70)	54
0.750 (19.05)	70

Maximum lead temperatures in °C (T<sub>L</sub>) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions)

Notes:  
Dimensions are in inches.  
Metric equivalents are based upon  
1 inch = 25.4 mm.

Maximum power in watts vs lead temperatures for 1N6073, 1N6074 and 1N6075