

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

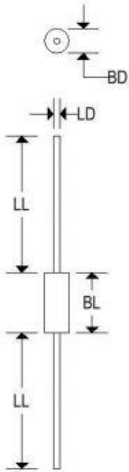
Type	Peak Inverse Voltage PIV	Forward Voltage V_F (Pulsed)	Average Rectified Current I_o	Reverse Current @ PIV I_R	Reverse* Recovery Time t_{rr}	Surge Current I_F (SURGE)
	VOLTS	VOLTS	AMPS	μA	ns	AMPS
1N6073	50	2.04	3.0	1.0	30	35
1N6074	100	2.04	3.0	1.0	30	35
1N6075	150	2.04	3.0	1.0	30	35
1N6076	50	1.76	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

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MECHANICAL CHARACTERISTICS

Case	Digi A (1N6073-1N6075)
Marking	Alpha-numeric
Polarity	Cathode band

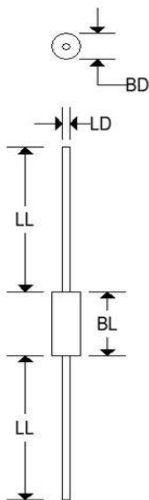


	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.060	0.095	1.524	2.413
BL	0.125	0.205	3.175	5.207
LD	0.026	0.033	0.660	0.838
LL	1.000	1.500	25.400	38.100

BL includes slugs and uncontrolled area of the leads

MECHANICAL CHARACTERISTICS

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



	Digi B			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.115	0.142	2.921	3.607
BL	0.130	0.260	3.302	6.604
LD	0.036	0.042	0.914	1.067
LL	1.000	1.500	25.400	38.100

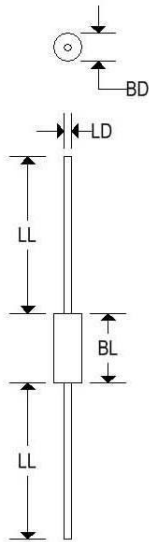
BL includes slugs and uncontrolled area of the leads

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MECHANICAL CHARACTERISTICS

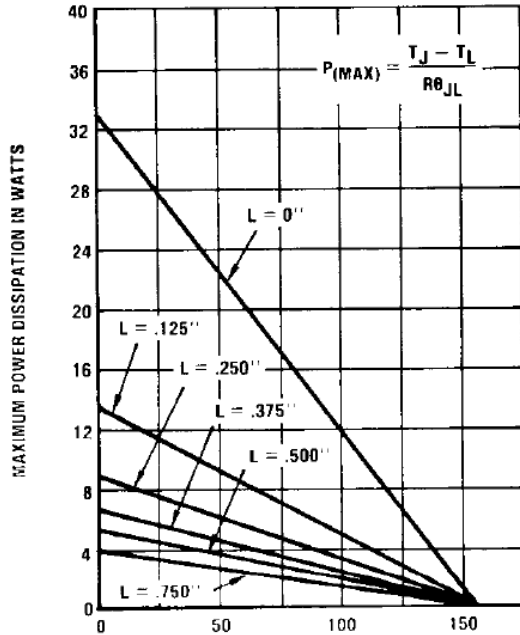
Case	Digi G (1N6079-1N6081)
Marking	Body painted, alpha-numeric
Polarity	Cathode band



	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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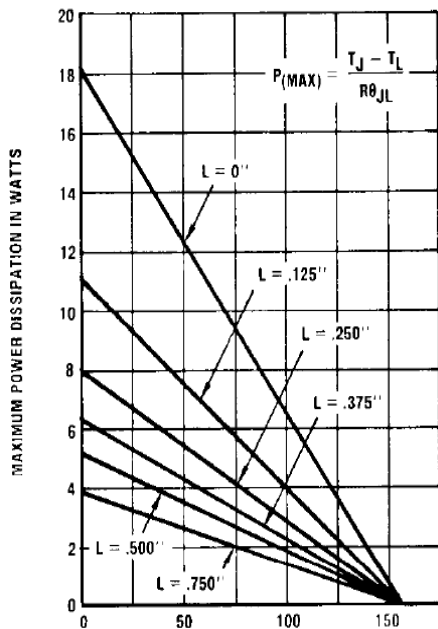


L	R _{θJL}
Inches (mm)	°C/W
0.000	5.0
0.125 (3.17)	11.5
0.250 (6.35)	17.5
0.375 (9.53)	23.5
0.500 (12.70)	29.0
0.750 (19.05)	40.0

Maximum lead temperatures in °C (T_L) 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 _{θJL}
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

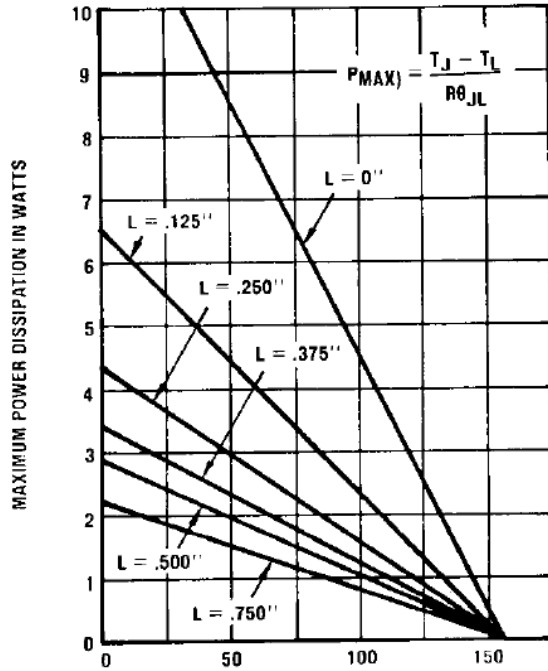
Maximum lead temperatures in °C (T_L) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions)

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

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L	R _{θJL}
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_L) 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