D I G I T R O N S E M I C O N D U C T O R S

1N6073-1N6081 ULTRA FAST RECTIFIERS

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

MAXIMUM RATINGS

Operating and Storage Temperature:	-65°C to +155°C

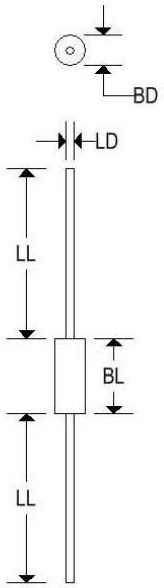
ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise specified

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

*Note: I_F=0.5A, I_R=-1.0A and I_{RR}=-0.25A

MECHANICAL CHARACTERISTICS

Case:	Digi A
Marking:	Body painted, alpha-numeric
Polarity:	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	-

144 Market Street
Kenilworth NJ 07033 USA

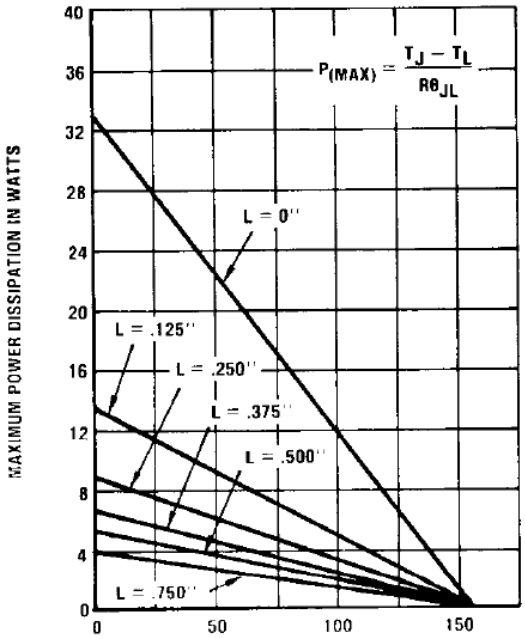
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Rev. 20100716

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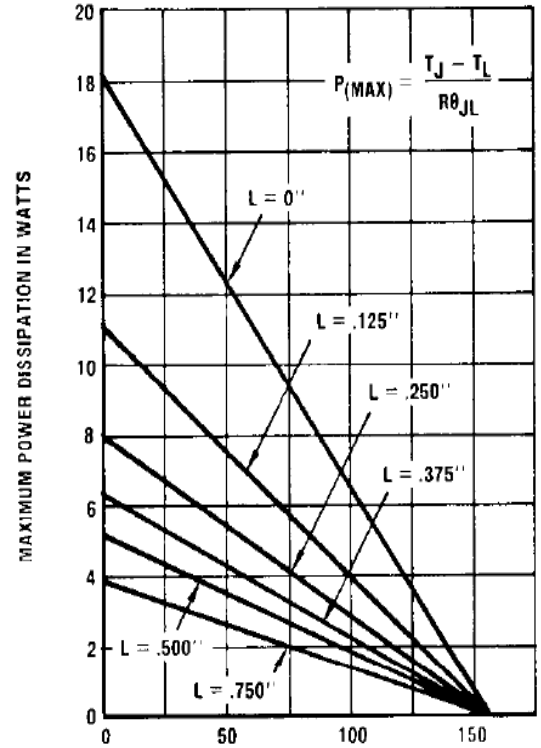


L	$R_{\theta JL}$
Inches (mm)	°C/W
0.000	5.0
0.125 (3.17)	11.5
0.250 (6.35)	17.5
0.375 (9.53)	23.5
0.500 (12.70)	29.0
0.750 (19.05)	40.0

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	$R_{\theta JL}$
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

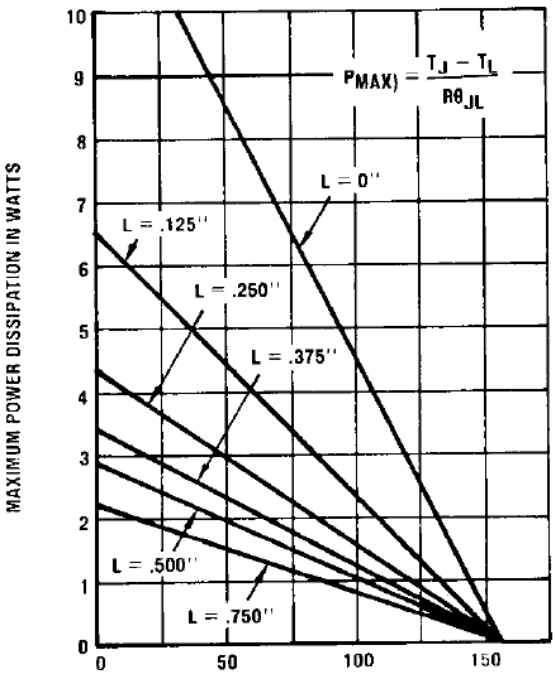
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D I G I T R O N S E M I C O N D U C T O R S

1N6073-1N6081 **ULTRA FAST RECTIFIERS**



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

L	$R_{\theta JL}$
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.

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