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1N6073  
thru  
1N6081



## FEATURES

- Triple layer passivation.
- Metallurgically bonded.
- Ultra fast recovery.
- Voidless hermetically sealed glass package.
- JAN/TX/TXV available for 1N6074, 1N6075 per MIL-S-19500/503.

## MAXIMUM RATINGS

Operating Temperature:  $-65^{\circ}\text{C}$  to  $+155^{\circ}\text{C}$ .  
Storage Temperature:  $-65^{\circ}\text{C}$  to  $+155^{\circ}\text{C}$ .

## ELECTRICAL CHARACTERISTICS

(@  $25^{\circ}\text{C}$  unless otherwise specified)

TYPE	PEAK INVERSE VOLTAGE PIV	FORWARD VOLTAGE $V_f$ (PULSED)	AVERAGE RECTIFIED CURRENT $I_0$	REVERSE CURRENT @ PIV $I_R$	REVERSE* RECOVERY TIME $t_{rr}$	SURGE CURRENT $I_F$ (SURGE)
	VOLTS	VOLTS	AMPS	$\mu\text{A}$	$\text{nsec}$	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:  $I_F = 0.5\text{A}$ ,  $I_R = -1.0\text{A}$  and  $I_{RR} = -0.25\text{A}$

## MECHANICAL CHARACTERISTICS

Case: Hermetically sealed hard glass.

Lead Material: 1N6073-75 — Tinned copper.

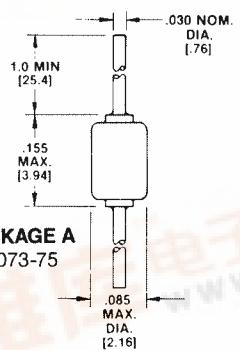
1N6076-78 — Tinned copper or silver-clad copper.

1N6079-81 — Tinned copper or silver-clad copper.

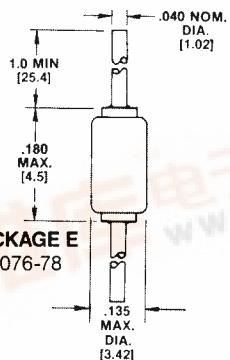
Marking: Body painted, alpha numeric.

Polarity: Cathode band.

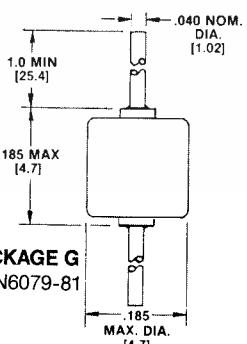
## ULTRA FAST POWER RECTIFIERS



PACKAGE A  
1N6073-75



PACKAGE E  
1N6076-78



PACKAGE G  
1N6079-81

# 1N6073 thru 1N6081

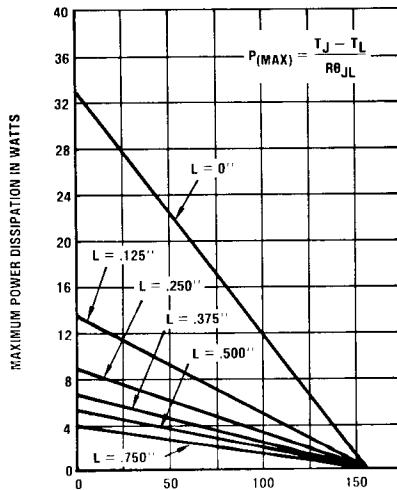


FIGURE 2. Maximum power in watts vs lead temperature for 1N6079, 1N6080 and 1N6081

L	Rθ <sub>JL</sub>
INCHES (mm)	°C/W
0.000 ( 0.00)	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 temperature in °C (T<sub>L</sub>) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions).

#### NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

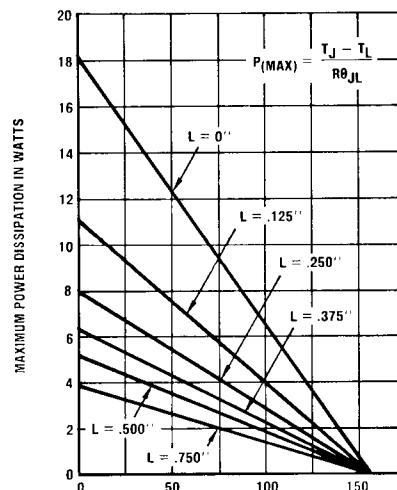


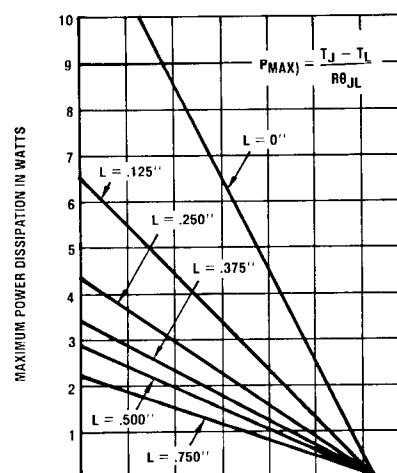
FIGURE 3. Maximum power in watts vs lead temperature for 1N6076, 1N6077 and 1N6078

L	Rθ <sub>JL</sub>
INCHES (mm)	°C/W
0.000 ( 0.00)	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 temperature in °C (T<sub>L</sub>) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions).

#### NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.



L	Rθ <sub>JL</sub>
INCHES (mm)	°C/W
0.000 ( 0.00)	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 temperature in °C (T<sub>L</sub>) at point "L" from body (for maximum operating junction temperature with equal two-lead conditions).

#### NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.