

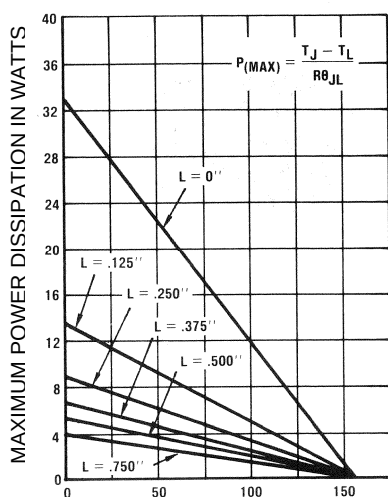
ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise specified

TYPE	WORKING PEAK REVERSE VOLTAGE V_{RWM}	MAXIMUM FORWARD VOLTAGE (PULSED) V_F @ I_F	PULSED TEST CURRENT I_F	AVERAGE RECTIFIED CURRENT I_O @ $T_L = 70^\circ\text{C}$	AVERAGE RECTIFIED CURRENT I_O @ $T_A = 55^\circ\text{C}$	MAXIMUM REVERSE CURRENT I_R @ V_{RWM}	MAXIMUM REVERSE RECOVERY TIME* t_{rr}	MAXIMUM SURGE CURRENT I_{FSM}
	VOLTS	VOLTS	AMPS	AMPS	AMPS	μA	ns	AMPS
1N6073	50	2.04	9.4	3.0	0.85	1.0	30	35
1N6074	100	2.04	9.4	3.0	0.85	1.0	30	35
1N6075	150	2.04	9.4	3.0	0.85	1.0	30	35
1N6076	50	1.76	18.8	6.0	1.3	5.0	30	75
1N6077	100	1.76	18.8	6.0	1.3	5.0	30	75
1N6078	150	1.76	18.8	6.0	1.3	5.0	30	75
1N6079	50	1.50	37.7	12.0	2.0	10.0	30	175
1N6080	100	1.50	37.7	12.0	2.0	10.0	30	175
1N6081	150	1.50	37.7	12.0	2.0	10.0	30	175

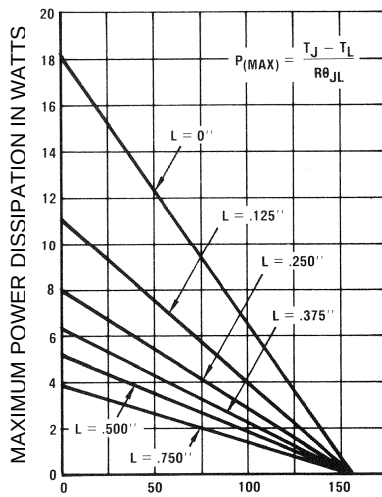
*NOTE: $I_F = 0.5\text{ A}$, $I_{RM} = 1.0\text{ A}$, and $I_{R(REC)} = 0.25\text{ A}$

SYMBOLS & DEFINITIONS

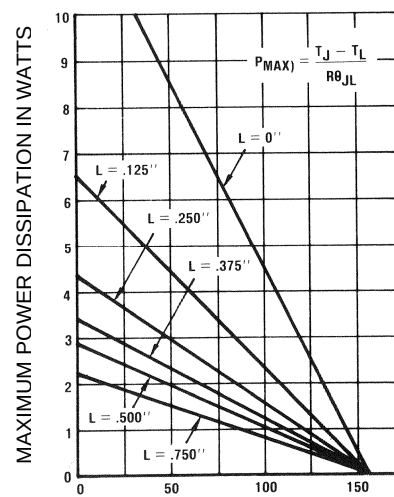
Symbol	Definition
V_{BR}	Minimum Breakdown Voltage: The minimum voltage the device will exhibit at a specified current.
V_{RWM}	Working Peak Reverse Voltage: The maximum peak voltage that can be applied over the operating temperature range.
V_F	Maximum Forward Voltage: The maximum forward voltage the device will exhibit at a specified current.
I_R	Maximum Leakage Current: The maximum leakage current that will flow at the specified voltage and temperature.
t_{rr}	Reverse Recovery Time: The time interval between the instant the current passes through zero when changing from the forward direction to the reverse direction and a specified recovery decay point after a peak reverse current is reached.

GRAPHS

FIGURE 1

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


FIGURE 2

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


FIGURE 3

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

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

Lead Length INCHES (mm)	R _{θJL} °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

1N6079, 1N6080 and 1N6081

NOTES:

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

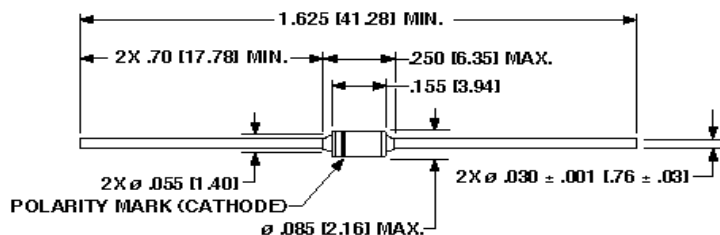
Lead Length INCHES (mm)	R _{θJL} °C/W
0.000	8.5
0.125 (3.17)	14.0
0.250 (6.35)	19.5
0.375 (9.53)	25.0
0.500 (12.70)	30.0
0.750 (19.05)	40.0

1N6076, 1N6077 and 1N6078

Lead Length INCHES (mm)	R _{θJL} °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

1N6073, 1N6074 and 1N6075

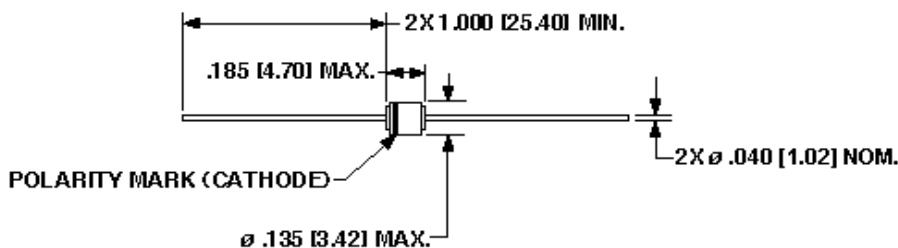
PACKAGE DIMENSIONS



NOTE: DIMENSIONS IN INCHES [mm]

PACKAGE A (1N6073-75)

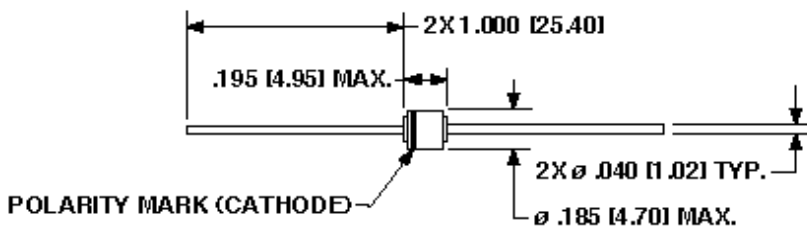
NOTE: Lead diameter tolerance = +0.003/-0.004 inches



NOTE: DIMENSIONS IN INCHES [mm]

PACKAGE E (1N6076-78)

NOTE: Lead diameter tolerance = +0.002/-0.003 inches



NOTE: DIMENSIONS IN INCHES [mm]

PACKAGE G (1N6079-81)

NOTE: Lead diameter tolerance = +0.002/-0.003 inches