

MAXIMUM RATINGS

Power Dissipation: 500 mW

Power Derating: 4.6 mW/°C above 25°C

Operating and Storage Temperatures: -65 to +185°C

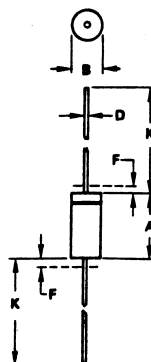
ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise indicated

JEDEC TYPE NUMBER	ZENER VOLTAGE V_Z @ I_{ZT}		MAXIMUM ZENER IMPEDANCE (Note 2) Z_{ZT}	VOLTAGE TEMPERATURE STABILITY (Note 3) ΔV_{ZT} MAXIMUM	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COEFFICIENT
	VOLTS	mA	OHMS	mV	°C	%/°C
1N2163	9.0 - 9.8	10	15	33	0 to + 70	.005
1N2163A	9.2 - 9.6	10	15	33	0 to + 70	.005
1N2164	9.0 - 9.8	10	15	85	-55 to +125	.005
1N2164A	9.2 - 9.6	10	15	85	-55 to +125	.005
1N2165	9.0 - 9.8	10	15	113	-55 to +185	.005
1N2165A	9.2 - 9.6	10	15	113	-55 to +185	.005
1N2166	9.0 - 9.8	10	15	7	0 to + 70	.001
1N2166A	9.2 - 9.6	10	15	7	0 to + 70	.001
1N2167	9.0 - 9.8	10	15	17	-55 to +125	.001
1N2167A	9.2 - 9.6	10	15	17	-55 to +125	.001
1N2168	9.0 - 9.8	10	15	23	-55 to +185	.001
1N2168A	9.2 - 9.6	10	15	23	-55 to +185	.001
1N2169	9.0 - 9.8	10	15	4	0 to + 70	.0005
1N2169A	9.2 - 9.6	10	15	4	0 to + 70	.0005
1N2170	9.0 - 9.8	10	15	9	-55 to +125	.0005
1N2170A	9.2 - 9.6	10	15	9	-55 to +125	.0005
1N2171	9.0 - 9.8	10	15	12	-55 to +185	.0005
1N2171A	9.2 - 9.6	10	15	12	-55 to +185	.0005

NOTE 1 The electrical characteristics are measured after allowing the device to stabilize for 90 seconds with $\frac{3}{8}$ inch MIL spacing between test clips and case. Temperature coefficient is measured with the device in a circulating oil bath with a temperature tolerance of $\pm 1^\circ\text{C}$.

NOTE 2 Measured by superimposing 0.1 mA ac rms on 10 mA DC @ 25°C.

NOTE 3 The maximum allowable change observed over the entire range i.e., the change in diode voltage will not exceed the specified mV change between any two discrete temperatures over the specified temperature range.



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.95	5.08	0.128	0.200
B	1.52	2.29	0.060	0.090
C	0.48	0.58	0.019	0.022
D	—	1.27	—	0.050
E	25.40	38.10	1.000	1.500

ALL JEDEC dimensions and notes apply.

