

FEATURES

- ZENER VOLTAGE $9.1V \pm 5\%$
- TEMPERATURE COEFFICIENT RANGE: 0.01%/°C TO 0.0005%/°C
- RADIATION HARDENED DEVICES AVAILABLE (SEE NOTE 4)

MAXIMUM RATINGS

Operating Temperature: $-65^{\circ}C$ to $+175^{\circ}C$
DC Power Dissipation: 250 mW
Power Derating: 2 mW/°C above $50^{\circ}C$

*** ELECTRICAL CHARACTERISTICS @ $25^{\circ}C$**

JEDEC TYPE NUMBER	ZENER VOLTAGE (NOTE 3)	ZENER TEST CURRENT	MAXIMUM DYNAMIC IMPEDANCE (Note 1)	MAXIMUM VOLTAGE TEMPERATURE STABILITY (NOTE 2 & 3)	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COMPENSATIONS
	$V_z @ I_{zT}$	I_{zT}	Z_{zT}	ΔV_{zT}		α_{Vz}
	VOLTS	mA	OHMS	mV	°C	%/°C
1N4765	9.1	0.5	350	68	0 to +75	0.01
1N4765A	9.1	0.5	350	141	-55 to +100	0.01
1N4766	9.1	0.5	350	34	0 to +75	0.005
1N4766A	9.1	0.5	350	70	-55 to +100	0.005
1N4767	9.1	0.5	350	14	0 to +75	0.002
1N4767A	9.1	0.5	350	28	-55 to +100	0.002
1N4768	9.1	0.5	350	7	0 to +75	0.001
1N4768A	9.1	0.5	350	14	-55 to +100	0.001
1N4769	9.1	0.5	350	3	0 to +75	0.0005
1N4769A	9.1	0.5	350	7	-55 to +100	0.0005
1N4770	9.1	1.0	200	68	0 to +75	0.01
1N4770A	9.1	1.0	200	141	-55 to +100	0.01
1N4771	9.1	1.0	200	34	0 to +75	0.005
1N4771A	9.1	1.0	200	70	-55 to +100	0.005
1N4772	9.1	1.0	200	14	0 to +75	0.002
1N4772A	9.1	1.0	200	28	-55 to +100	0.002
1N4773	9.1	1.0	200	7	0 to +75	0.001
1N4773A	9.1	1.0	200	14	-55 to +100	0.001
1N4774	9.1	1.0	200	3	0 to +75	0.0005
1N4774A	9.1	1.0	200	7	-55 to +100	0.0005

*JEDEC Registered Data.

NOTE 1 Measured by superimposing $I_{z ac rms}$ on $I_z DC$ @ $+25^{\circ}C$ where $I_{z ac rms} = 10\% I_z DC$.

NOTE 2 Maximum allowable change between any two discrete temperatures over the specified temperature range.

NOTE 3 Voltage measurements to be performed 15 seconds after application of DC current.

NOTE 4 Designate Radiation Hardened devices with "RH" prefix instead of "1N," i.e., RH4774A.

NOTE 5 Consult factory for TX, TXV or JANS equivalent SCDs.

**9.1 VOLT
TEMPERATURE
COMPENSATED
ZENER REFERENCE
DIODES**

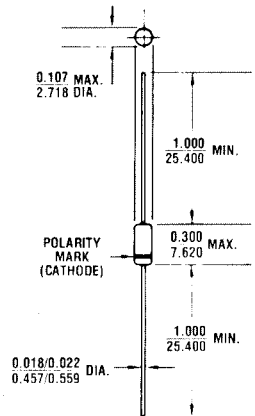


FIGURE 1

All dimensions in INCH
m.m.

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case. DO-7.

FINISH: All external surfaces are corrosion resistant and leads solderable.

THERMAL RESISTANCE: $300^{\circ}C/W$ (Typical) junction to lead at 0.375-inches from body.

POLARITY: Diode to be operated with the banded end positive with respect to the opposite end.

WEIGHT: 0.2 grams.

MOUNTING POSITION: Any.

1N4765 thru 1N4774A

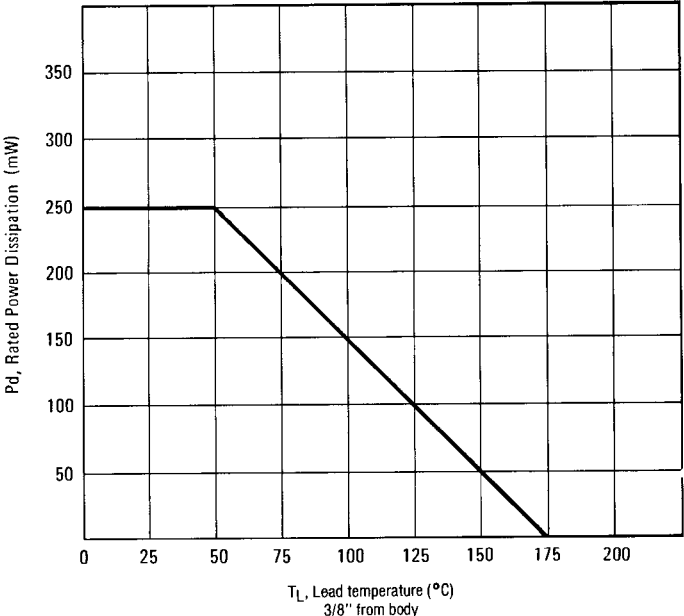


FIGURE 2 POWER DERATING CURVE