

Microsemi Corp.

The diode experts.

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**1N4765
thru
1N4774A**

FEATURES

- ZENER VOLTAGE $9.1V \pm 5\%$
- TEMPERATURE COEFFICIENT RANGE: $0.01\%/^{\circ}C$ TO $0.0005\%/^{\circ}C$
- 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/ $^{\circ}C$ above $50^{\circ}C$

9.1 VOLT TEMPERATURE COMPENSATED ZENER REFERENCE DIODES

* 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 α_{VZ}
	$V_Z @ I_{ZT}$ VOLTS	I_{ZT} mA	Z_{ZT} OHMS	ΔV_{ZT} mV		
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.

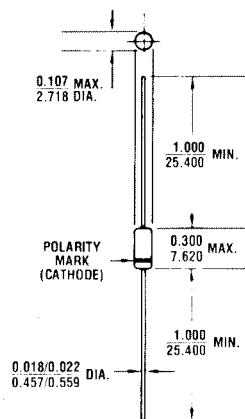


FIGURE 1

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

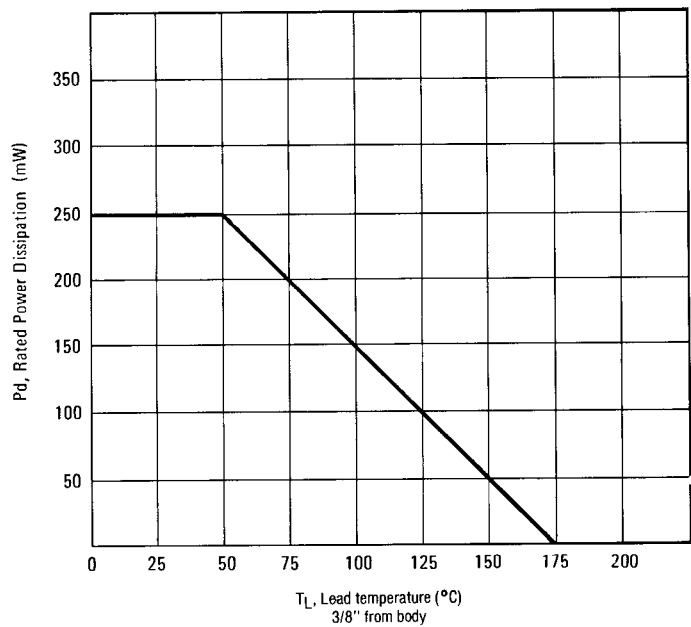


FIGURE 2 POWER DERATING CURVE