imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- 9.1 VOLT NOMINAL ZENER VOLTAGE ± 5%
- TEMPERATURE COMPENSATED ZENER REFERENCE DIODES
- LOW CURRENT RANGE: 0.5 AND 1.0 mA
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C Storage Temperature: -65°C to +175°C DC Power Dissipation: 500mW @ +50°C Power Derating: 4 mW / °C above +50°C

REVERSE LEAKAGE CURRENT

 $I_R = 10 \ \mu A @ 25^{\circ}C \& V_R = 6 \ Vdc$

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise speci1/2ed.

JEDEC TYPE NUMBER	ZENER VOLTAGE ^V z ^{@ I} ZT (Note 3)	ZENER TEST CURRENT ^I ZT	MAXIMUM DYNAMIC IMPEDANCE Z _{ZT} (Note 1)	MAXIMUM VOLTAGE TEMPERATURE STABILITY ^{3V} ZT (Note 2)	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COEFFICIENT
	VOLTS	mA	OHMS	mV	°C	% / °C
1N4765 1N4765A 1N4766 1N4766 1N4766A	9.1 9.1 9.1 9.1	0.5 0.5 0.5 0.5	350 350 350 350	68 141 34 70	0 to + 75 -55 to +100 0 to + 75 -55 to +100	0.01 0.01 0.005 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	6.8	0 to + 75	0.001
1N4768A	9.1	0.5	350	14	-55 to +100	0.001
1N4769	9.1	0.5	350	3.4	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	6.8	0 to + 75	0.001
1N4773A	9.1	1.0	200	14	-55 to +100	0.001
1N4774	9.1	1.0	200	3.4	0 to + 75	0.0005
1N4774A	9.1	1.0	200	7	-55 to +100	0.0005

NOTE 1 Zener impedance is derived by superimposing on I_{ZT} A 60Hz rms a.c. current equal to 10% of I_{ZT} .

NOTE 2 The maximum allowable change observed over the entire temperature range i.e., the diode voltage will not exceed the speci½ed mV at any discrete temperature between the established limits, per JEDEC standard No.5.

NOTE 3 Zener voltage range equals 9.1 volts ± 5%.

1N4765 thru 1N4774A

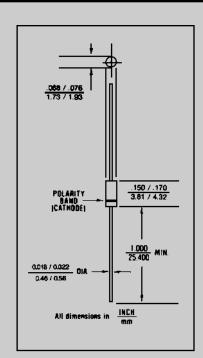


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case. DO – 35 outline.

LEAD MATERIAL: Copper clad steel.

LEAD FINISH: Tin / Lead

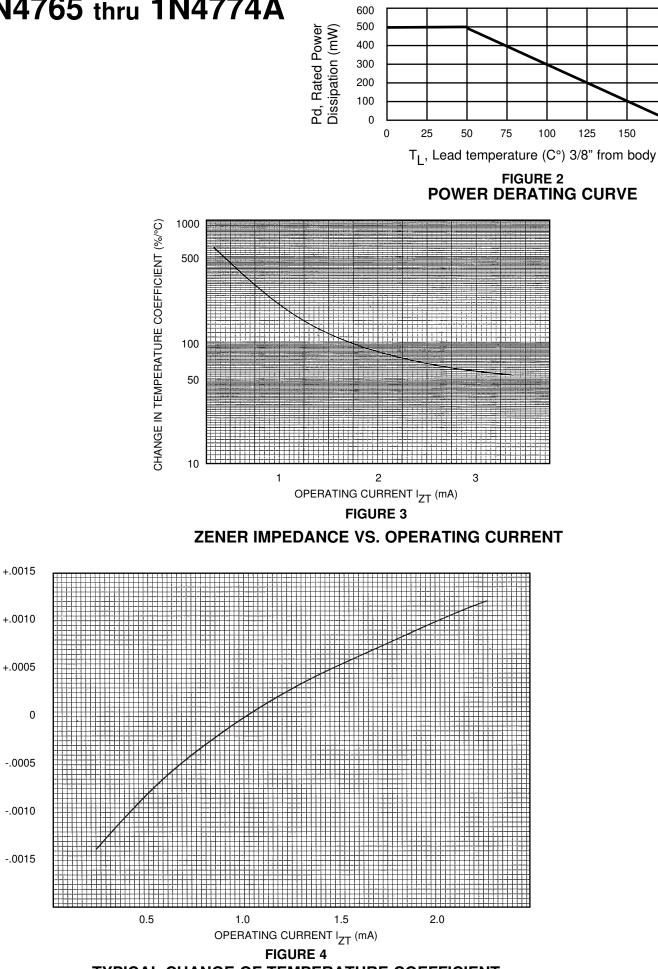
POLARITY: Diode to be operated with the banded (cathode) end positive.

MOUNTING POSITION: ANY.



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1N4765 thru 1N4774A



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TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT

CHANGE IN TEMPERATURE COEFFICIENT (%/°C)