



Microsemi Corp.
The diode experts

SCOTTSDALE, AZ

For more information call:
(602) 941-6300

1N5728 thru 1N5757

FEATURES

- ZENER VOLTAGE 4.7 TO 75 V
- SMALL RUGGED DOUBLE SLUG CONSTRUCTION DO-35
- CONSTRUCTED WITH AN OXIDE PASSIVATED ALL DIFFUSED DIE

MAXIMUM RATINGS

Operating Temperature: -65°C to $+200^{\circ}\text{C}$

DC Power Dissipation: 400 mW

Power Derating: 2.63 mW/ $^{\circ}\text{C}$ above 50°C

Forward Voltage @ 10 mA: 0.9 Volts

**SILICON
400 mW
ZENER DIODES**

*ELECTRICAL CHARACTERISTICS @ 25°C

TYPE NUMBER (Note 1)	REGULATOR VOLTAGE	TEST CURRENT	DYNAMIC IMPEDANCE	REVERSE CURRENT	I _z TEST VOLTAGE	MAXIMUM REGULATOR CURRENT	TEMPERATURE COEFFICIENT
	(V _z) VOLTS	(I _z) MODE	(Z _z) OHMS	(I _r) μA	(V _z) VOLTS	(I _{zm}) mA	(α_{Vz}) mV/ $^{\circ}\text{C}$
1N5728B	4.7	10	70	3.0	2	70	-1.0
1N5729B	5.1	10	50	3.0	2	65	-0.2
1N5730B	5.6	10	25	3.0	2	60	+1.2
1N5731B	6.2	10	10	3.0	4	55	+2.3
1N5732B	6.8	10	10	3.0	4	50	+3.0
1N5733B	7.5	10	10	2.0	5	45	+4.0
1N5734B	8.2	10	15	1.0	5	40	+5.0
1N5735B	9.1	10	15	0.5	6	40	+6.0
1N5736B	10	10	20	0.2	7	35	+7.0
1N5737B	11	5	20	0.1	8	30	+8.0
1N5738B	12	5	25	0.1	8	30	+9.0
1N5739B	13	5	30	0.1	9	25	+10.5
1N5740B	15	5	30	0.1	10	25	+12.9
1N5741B	16	5	40	0.1	11	20	+13
1N5742B	18	5	45	0.1	12	20	+15
1N5743B	20	5	55	0.1	14	15	+17
1N5744B	22	5	55	0.1	15	15	+19
1N5745B	24	5	70	0.1	17	15	+21
1N5746B	27	2	80	0.1	19	10	+23.5
1N5747B	30	2	80	0.1	21	10	+26
1N5748B	33	2	90	0.1	23	10	+29
1N5749B	36	2	90	0.1	25	10	+31
1N5750B	39	2	130	0.1	27	9	+34
1N5751B	43	2	150	0.1	30	9	+37
1N5752B	47	2	170	0.1	33	8	+40
1N5753B	51	2	180	0.1	36	7	+44
1N5754B	56	2	200	0.1	39	6	+47
1N5755B	62	2	215	0.1	43	6	+51
1N5756B	68	2	240	0.1	48	5	+56
1N5757B	75	2	255	0.1	53	5	+60

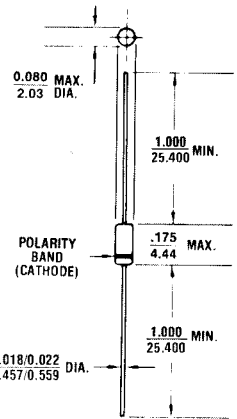


FIGURE 1

All dimensions in INCH
m.m.

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case. DO-35.

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

THERMAL RESISTANCE: $200^{\circ}\text{C}/\text{W}$ (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.

*JEDEC Registered Data. The Type Number indicates 5% Tolerance. See Note 1.

1N5728 thru 1N5757

NOTE 1 Devices listed have a $\pm 5\%$ voltage tolerance on nominal V_Z . Suffix C denotes a $\pm 2\%$ tolerance and suffix D denotes a $\pm 1\%$ tolerance.

NOTE 2 All static parameters measured under pulsed conditions, $t_p = 300 \mu\text{sec}$.

NOTE 3 Dynamic Impedance measured by superimposing 0.2 mA I_{ac} rms at 1000 hz on I DC.

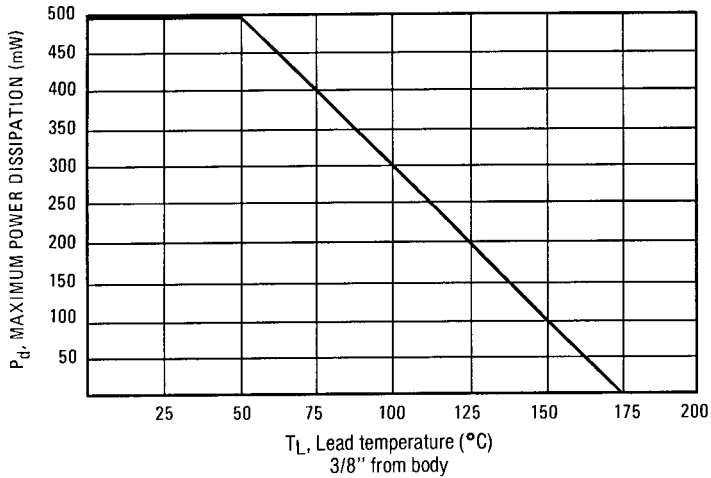


FIGURE 2 POWER DERATING CURVE

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.