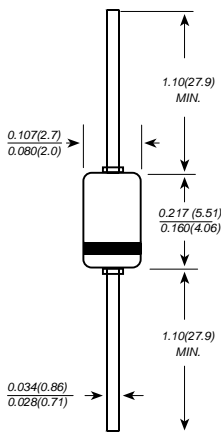


**1N47-G-SERIES**  
**ZENER DIODES**

Zener Voltage :3.3-100V Peak Pulse Power :1.0W

**DO-41(GLASS)**



Dimensions in inches and (millimeters)

**FEATURE**

- ◆ Low zener impedance
- ◆ Low regulation factor
- ◆ Glass passivated junction
- ◆ High temperature soldering guaranteed:  
260°C/10S/9.5mm lead length at 5 lbs tension
- ◆ Green Products in Compliance with the RoHS Directive

**MECHANICAL DATA**

**Case:** JEDEC DO-41(GLASS) molded glass body

**Terminals:** Plated axial leads, solderable per MIL-STD 750, method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.012 ounce,0.35 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

	<b>SYMBOLS</b>	<b>VALUE</b>	<b>UNITS</b>
Zener Current see Table Characteristics			
Power Dissipation at Tamb=25°C(Note 1)	P <sub>tot</sub>	1000	mW
Junction Temperature	T <sub>j</sub>	200	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to + 200	°C
Thermal resistance junction ambient(Note 1)	R <sub>θJA</sub>	170	°C/W
Forward voltage at I <sub>F</sub> =200mA	V <sub>F</sub>	1.2	V

Note 1: Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

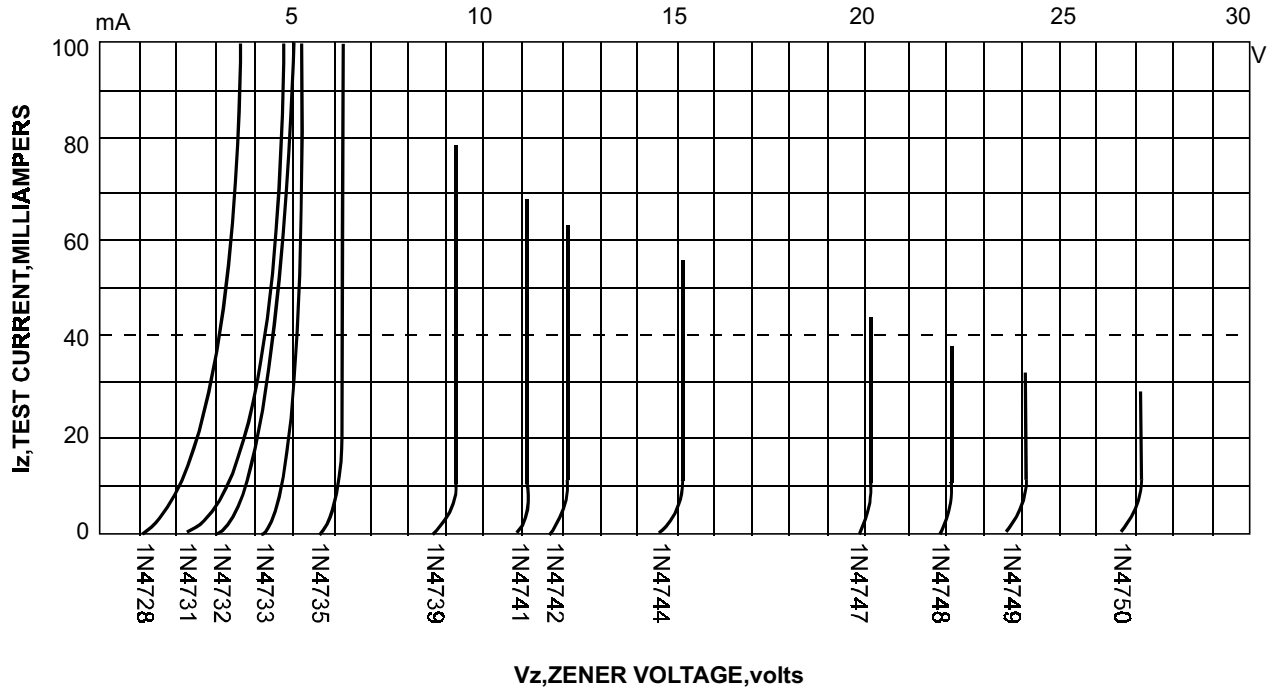
**ELECTRICAL CHARACTERISTICS (at TA=25°C unless otherwise noted)**

Device Type	Nominal Zener Voltage Vz@IzT	Test Current IzT	Maximum Zener Impedance		Maximum Reverse Leakage Current		Izk	Max.Surge Current Ir@25°C	Maximum Regulator Current IzM
	Volts		ZzT@IzT	ZzT@Izk	IR	@VR			
			mA	Ohms	Ohms	µA	Volts	mA	mA
1N4728A-G	3.3	76	10	400	100	1.0	1.0	1380	276
1N4729A-G	3.6	69	10	400	100	1.0	1.0	1260	252
1N4730A-G	3.9	64	9.0	400	50	1.0	1.0	1170	234
1N4731A-G	4.3	58	9.0	400	10	1.0	1.0	1085	217
1N4732A-G	4.7	53	8.0	500	10	1.0	1.0	965	193
1N4733A-G	5.1	49	7.0	550	10	1.0	1.0	890	178
1N4734A-G	5.6	45	5.0	600	10	2.0	1.0	810	162
1N4735A-G	6.2	41	2.0	700	10	3.0	1.0	730	146
1N4736A-G	6.8	37	3.5	700	10	4.0	1.0	660	133
1N4737A-G	7.5	34	4.0	700	10	5.0	0.5	605	121
1N4738A-G	8.2	31	4.5	700	10	6.0	0.5	550	110
1N4739A-G	9.1	28	5.0	700	10	7.0	0.5	500	100
1N4740A-G	10	25	7.0	700	10	7.6	0.25	454	91
1N4741A-G	11	23	8.0	700	5.0	8.4	0.25	414	83
1N4742A-G	12	21	9.0	700	5.0	9.1	0.25	380	76
1N4743A-G	13	19	10	700	5.0	9.9	0.25	344	69
1N4744A-G	15	17	14	700	5.0	11.4	0.25	304	61
1N4745A-G	16	15.5	16	700	5.0	12.2	0.25	285	57
1N4746A-G	18	14	20	750	5.0	13.7	0.25	250	50
1N4747A-G	20	12.5	22	750	5.0	15.2	0.25	225	45
1N4748A-G	22	11.5	23	750	5.0	16.7	0.25	205	41
1N4749A-G	24	10.5	25	750	5.0	18.2	0.25	190	38
1N4750A-G	27	9.5	35	750	5.0	20.6	0.25	170	34
1N4751A-G	30	8.5	40	1000	5.0	22.8	0.25	150	30
1N4752A-G	33	7.5	45	1000	5.0	25.1	0.25	135	27
1N4753A-G	36	7.0	50	1000	5.0	27.4	0.25	125	25
1N4754A-G	39	6.5	60	1000	5.0	29.7	0.25	115	23
1N4755A-G	43	6.0	70	1500	5.0	32.7	0.25	110	22
1N4756A-G	47	5.5	80	1500	5.0	35.8	0.25	95	19
1N4757A-G	51	5.0	95	1500	5.0	38.8	0.25	90	18
1N4758A-G	56	4.5	110	2000	5.0	42.6	0.25	80	16
1N4759A-G	62	4.0	125	2000	5.0	47.1	0.25	70	14
1N4760A-G	68	3.7	150	2000	5.0	51.7	0.25	65	13
1N4761A-G	75	3.3	175	2000	5.0	56.0	0.25	60	12
1N4762A-G	82	3.0	200	3000	5.0	62.2	0.25	55	11
1N4763A-G	91	2.8	250	3000	5.0	69.2	0.25	50	10
1N4764A-G	100	2.5	350	3000	5.0	76.0	0.25	45	9

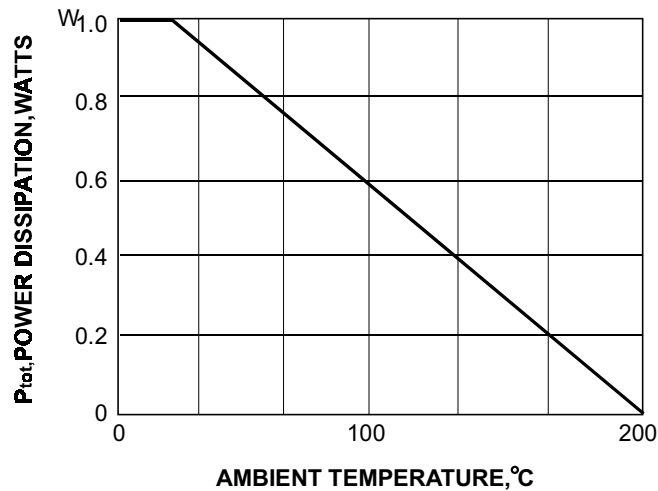
Note 1: Suffix "A" indicate ±5% tolerance

**RATINGS AND CHARACTERISTIC CURVES 1N47-G SERIES**

**Breakdown characteristics**



**Admissible power dissipation versus ambient temperature**  
Valid provided that leads are kept at ambient temperature at a distance of 10mm from case



**DISCLAIMER:**

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.