

Bi-directional Transient Voltage Suppressor Diode, 500W

Qualified per MIL-PRF-19500/516

✓ FEATURES / BENEFITS

- ✓ Hermetic, non-cavity glass package
- ✓ Category I metallurgically bonded
- ✓ All devices are 100% hot solder dipped
- ✓ JAN/JANTX/JANTXV available per MIL-PRF-19500/516
- ✓ Operating and storage temperature: -55°C to +175°C

ELECTRICAL CHARACTERISTICS

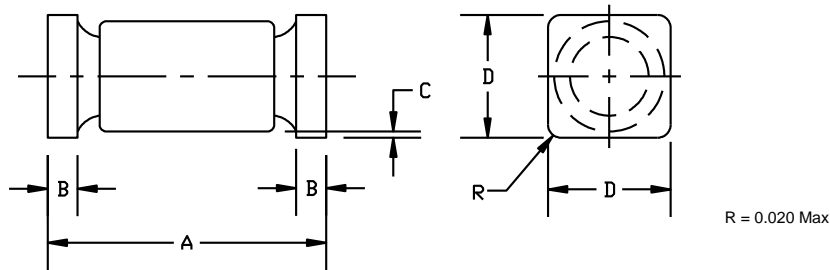
SERIES TYPE	MIN BREAKDOWN VOLTAGE $V_{(BR)} @ I_{(BR)}$		WORKING PEAK REVERSE VOLTAGE VRWM	MAXIMUM REVERSE CURRENT I_{R1}	MAX. CLAMP. VOLTAGE $V_c @ I_P$ tp = 1ms	MAX. PEAK PULSE CURRENT I_P	MAX. TEMP. COEFFICIENT $V_{(BR)}$
	Vdc	mA dc	Vdc	μ A dc	V(pk)	A(pk)	% / °C
500W	Vdc	mA dc	Vdc	μ A dc	V(pk)	A(pk)	% / °C
1N6105A/US	8.65	150	6.9	20	13.4	37.3	.06
1N6106A/US	9.50	125	7.6	20	14.5	34.5	.07
1N6107A/US	10.45	125	8.4	20	15.6	32.0	.07
1N6108A/US	11.40	100	9.1	20	16.9	29.6	.07
1N6109A/US	12.35	100	9.9	20	18.2	27.5	.08
1N6110A/US	14.25	75	11.4	20	21.0	23.8	.08
1N6111A/US	15.20	75	12.2	20	22.3	22.4	.08
1N6112A/US	17.10	65	13.7	1	25.1	19.0	.085
1N6113A/US	19.00	65	15.2	1	27.7	18.0	.085
1N6114A/US	20.9	50	16.7	1	30.5	16.4	.085
1N6115A/US	22.8	50	18.2	1	33.3	15.0	.09
1N6116A/US	25.7	50	20.6	1	37.4	13.4	.09
1N6117A/US	28.5	40	22.8	1	41.6	12.0	.09
1N6118A/US	31.4	40	25.1	1	45.7	10.9	.095
1N6119A/US	34.2	30	27.4	1	49.9	10.0	.095
1N6120A/US	37.1	30	29.7	1	53.6	9.3	.095
1N6121A/US	40.9	30	32.7	1	59.1	8.5	.095
1N6122A/US	44.7	25	35.8	1	64.6	7.7	.095
1N6123A/US	48.5	25	38.8	1	70.1	7.1	.095
1N6124A/US	53.2	20	42.6	1	77.0	6.5	.095
1N6125A/US	58.9	20	47.1	1	85.3	5.9	.100
1N6126A/US	64.6	20	51.7	1	97.1	5.1	.100
1N6127A/US	71.3	20	56.0	1	103.1	4.8	.100
1N6128A/US	77.9	15	62.2	1	112.8	4.4	.100
1N6129A/US	86.5	15	69.2	1	125.1	4.0	.100
1N6130A/US	95.0	12	76.0	1	137.6	3.6	.100
1N6131A/US	104.5	12	83.6	1	151.3	3.3	.100
1N6132A/US	114.0	10	91.2	1	165.1	3.0	.100
1N6133A/US	123.5	10	98.8	1	178.8	2.8	.105
1N6134A/US	142.5	8.0	114.0	1	206.3	2.4	.105
1N6135A/US	152	8.0	121.6	1	218.4	2.3	.105
1N6136A/US	171	5.0	136.8	1	245.7	2.0	.110
1N6137A/US	190	5.0	152.0	1	273.0	1.8	.110

TECHNICAL DATA
DATA SHEET 5074, REV. D.2

MECHANICAL DIMENSIONS In Inches / (mm)



PACKAGE STYLE	ϕB	ϕD	G	L
AXIAL	.026/.033 .66/.84	.085/.140 2.16/3.56	.140/.185 3.56/4.70	1.00/1.30 25.4/33.02



STYLE	A	B	C	D
MELF	.200/.225 5.08/5.72	.019/.028 .48/.71	.003MIN .08MIN	.137/.148 3.48/3.76

PART ORDERING INFORMATION

The following part numbers can be screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	*Part Number-- Leaded Package (example for 1N6108A)	Part Number- Surface Mount Package (example for 1N6108AUS)
1N	1N6108A	1N6108AUS
JAN	JAN1N6108A	JAN1N6108AUS
JANTX	JANTX1N6108A	JANTX1N6108AUS
JANTXV	JANTXV1N6108A	JANTXV1N6108AUS
JANS	JANS1N6108A	JANS1N6108AUS

*Parts can also be ordered Tape & Reel

TECHNICAL DATA
DATA SHEET 5074, REV. D.2

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.*