

TECHNICAL DATA  
DATA SHEET 5074, REV. D

AVAILABLE AS  
1N, JAN, JANTX, JANTXV  
JANS  
JAN EQUIVALENT\*  
SJ\*, SX\*, SV\*, SS\*

**Bi-directional Transient Voltage Suppressor Diode, 500W**

*Qualified per MIL-PRF-19500/516*

✓ **FEATURES / BENEFITS**

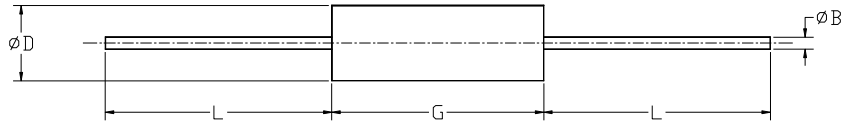
- ✓ Hermetic, non-cavity glass package
- ✓ Category I Metallurgically bonded
- ✓ All devices are 100% hot solder dipped
- ✓ JAN/ JANTX/JANTXV available per MIL-PRF-19500/516
- ✓ "JANS Plus" removes atypical/out of family  $V_F$
- ✓ Operating and Storage Temperature:  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS**

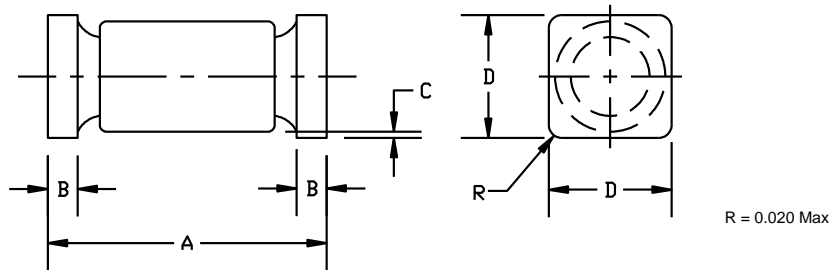
SERIES TYPE	MIN BREAKDOWN VOLTAGE $V_{(BR)} @ I_{(BR)}$		WORKING PEAK REVERSE VOLTAGE VRWM	MAXIMUM REVERSE CURRENT $I_{R1}$	MAX. CLAMP. VOLTAGE VC @ $I_P$ tp = 1ms	MAX. PEAK PULSE CURRENT $I_P$	MAX. TEMP. COEFFICIENT $V_{(BR)}$
	Vdc	mA dc	Vdc	$\mu\text{A dc}$	V(pk)	A(pk)	% / $^{\circ}\text{C}$
500W							
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

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**MECHANICAL DIMENSIONS In Inches / (mm)**



PACKAGE STYLE	phi B	phi D	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
SJ	SJ6108A	SJ6108AUS
JANTX	JANTX1N6108A	JANTX1N6108AUS
SX	SX6108A	SX6108AUS
JANTXV	JANTXV1N6108A	JANTXV1N6108AUS
SV	SV6108A	SV6108AUS
JANS	JANS1N6108A	JANS1N6108AUS
SS	SS6108A	SS6108AUS

\*Parts can also be ordered Tape & Reel

\*Sensitron equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our specification 7700-4093 specification 7700-4091 (for SJ/SX/SV) and 7700-4093 (for SS).

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