

TECHNICAL DATA
DATA SHEET 5074, REV. A

Bi-Polar Transient Voltage Suppressor Diode, 500W

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Operating and Storage Temperature: -55°C to +175°C

1N61xx
***SJ61xx / *SX61xx / *SV61xx**
***SS61xx**

**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).*

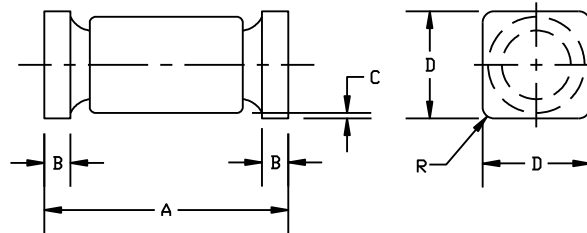
SERIES TYPE	MIN BREAKDOWN VOLTAGE		WORKING PEAK REVERSE VOLTAGE VRWM	MAXIMUM REVERSE CURRENT I _{R1}	MAX. CLAMP. VOLTAGE VC @ I _P tp = 1ms	MAX. PEAK PULSE CURRENT I _P	MAX. TEMP. COEFFICIENT V _(BR)
	V _(BR) @ I _(BR)	mA dc					
500W	Vdc	mA dc	Vdc	μA dc	V(pk)	A(pk)	% / °C
1N6102A/US	6.12	175	5.2	100	10.5	142.8	.05
1N6103A/US	7.13	175	5.7	50	11.2	133.9	.06
1N6104A/US	7.79	150	6.2	20	12.1	124.0	.06
1N6105A/US	8.65	150	6.9	20	13.4	111.9	.06
1N6106A/US	9.50	125	7.6	20	14.5	103.4	.07
1N6107A/US	10.45	125	8.4	20	15.6	96.2	.07
1N6108A/US	11.40	100	9.1	20	16.9	88.8	.07
1N6109A/US	12.35	100	9.9	20	18.2	82.4	.08
1N6110A/US	14.25	75	11.4	20	21.0	71.4	.08
1N6111A/US	15.20	75	12.2	20	22.3	67.3	.08
1N6112A/US	17.10	65	13.7	1	25.1	59.8	.085
1N6113A/US	19.00	65	15.2	1	27.7	54.2	.085
1N6114A/US	20.9	50	16.7	1	30.5	49.2	.085
1N6115A/US	22.8	50	18.2	1	33.3	45.0	.09
1N6116A/US	25.7	50	20.6	1	37.4	40.1	.09
1N6117A/US	28.5	40	22.8	1	41.6	36.0	.09
1N6118A/US	31.4	40	25.1	1	45.7	32.8	.095
1N6119A/US	34.2	30	27.4	1	49.9	30.1	.095
1N6120A/US	37.1	30	29.7	1	53.6	28.0	.095
1N6121A/US	40.9	30	32.7	1	59.1	25.4	.095
1N6122A/US	44.7	25	35.8	1	64.6	23.2	.095
1N6123A/US	48.5	25	38.8	1	70.1	21.4	.095
1N6124A/US	53.2	20	42.6	1	77.0	19.5	.095
1N6125A/US	58.9	20	47.1	1	85.3	17.6	.100
1N6126A/US	64.6	20	51.7	1	97.1	15.4	.100
1N6127A/US	71.3	20	56.0	1	103.1	14.5	.100
1N6128A/US	77.9	15	62.2	1	112.8	13.3	.100
1N6129A/US	86.5	15	69.2	1	125.1	12.0	.100
1N6130A/US	95.0	12	76.0	1	137.6	10.9	.100
1N6131A/US	104.5	12	83.6	1	151.3	9.9	.100
1N6132A/US	114.0	10	91.2	1	165.1	9.1	.100
1N6133A/US	123.5	10	98.8	1	178.8	8.4	.105
1N6134A/US	142.5	8.0	114.0	1	206.3	7.3	.105
1N6135A/US	152	8.0	121.6	1	218.4	6.9	.105
1N6136A/US	171	5.0	136.8	1	245.7	6.1	.110
1N6137A/US	190	5.0	152.0	1	273.0	5.5	.110

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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 purchased in either axial or surface mount devices and 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 1N6102)	Part Number- Surface Mount Package (example for 1N6102US)
SJ	SJ6102	SJ6102US
SX	SX6102	SX6102US
SV	SV6102	SV6102US
SS	SS6102	SS6102US

SENSITRON **SEMICONDUCTOR**

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