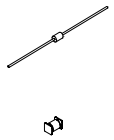
SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 287, REV -

TRANSIENT VOLTAGE SUPPRESSER DIODES
(AXIAL LEAD and MELF)

TRANSIENT VOLTAGE SUPPRESSORS, 500W SERIES

SERIES TYPE	BREAK-DOWN VOLTAGE $I_{(BR)}$	TEST CURRENT $I_{(BR)}$	WORKING PEAK REVERSE VOLTAGE V_{RWM}	MAXIMUM REVERSE CURRENT I_{R1}	MAX. CLAMP. VOLTAGE V_C(max) @ I_P tp = 1ms	MAX. PEAK PULSE CURRENT I_P	MAX. TEMP. COEFFICIENT $V_{(BR)}$	MAX. REVERSE CURRENT @ T_A = 150°C	PACKAGE STYLE
500W	Min. Vdc	mA dc	Vdc	µAdc	V(pk)	A(pk)	% / °C	µAdc	
1N6102A	6.46	175	5.2	100	10.5	47.6	.05	4,000	
1N6103A	7.13	175	5.7	50	11.2	44.6	.06	750	
1N6104A	7.79	150	6.2	20	12.1	41.3	.06	500	
1N6105A	8.65	150	6.9	20	13.4	37.3	.06	300	
1N6106A	9.50	125	7.6	20	14.5	34.5	.07	200	
1N6107A	10.45	125	8.4	20	15.6	32.0	.07	200	
1N6108A	11.40	100	9.1	20	16.9	29.6	.07	150	
1N6109A	12.35	100	9.9	20	18.2	27.5	.08	150	
1N6110A	14.25	75	11.4	20	21.0	23.8	.08	100	
1N6111A	15.20	75	12.2	20	22.3	22.4	.08	100	
1N6112A	17.10	65	13.7	1.0	25.1	19.9	.085	100	
1N6113A	19.00	65	15.2	1.0	27.7	18.0	.085	100	
1N6114A	20.9	50	16.7	1.0	30.5	16.4	.085	100	
1N6115A	22.8	50	18.2	1.0	33.3	15.0	.09	100	
1N6116A	25.7	50	20.6	1.0	37.4	13.4	.09	100	
1N6117A	28.5	40	22.8	1.0	41.6	12.0	.09	100	
1N6118A	31.4	40	25.1	1.0	45.7	10.9	.095	100	
1N6119A	34.2	30	27.4	1.0	49.9	10.0	.095	100	
1N6120A	37.1	30	29.7	1.0	53.6	9.3	.095	100	
1N6121A	40.9	30	32.7	1.0	59.1	8.5	.095	100	
1N6122A	44.7	25	35.8	1.0	64.6	7.7	.095	100	
1N6123A	48.5	25	38.8	1.0	70.1	7.1	.095	100	
1N6124A	53.2	20	42.6	1.0	77.0	6.5	.095	100	
1N6125A	58.9	20	47.1	1.0	85.3	5.9	.100	100	
1N6126A	64.6	20	51.7	1.0	97.1	5.1	.100	100	
1N6127A	71.3	20	56.0	1.0	103.1	4.8	.100	100	
1N6128A	77.9	15	62.2	1.0	112.8	4.4	.100	100	
1N6129A	86.5	15	69.2	1.0	125.1	4.0	.100	100	
1N6130A	95.0	12	76.0	1.0	137.6	3.6	.100	100	
1N6131A	104.5	12	83.6	1.0	151.3	3.3	.100	100	
1N6132A	114.0	10	91.2	1.0	165.1	3.0	.100	100	
1N6133A	123.5	10	98.8	1.0	178.8	2.8	.105	100	
1N6134A	142.5	8.0	114.0	1.0	206.3	2.4	.105	100	
1N6135A	152	8.0	121.6	1.0	218.4	2.3	.105	100	
1N6136A	171	5.0	136.8	1.0	245.7	2.0	.110	100	
1N6137A	190	5.0	152.0	1.0	273.0	1.8	.110	100	

Notes:

- P_R = 2W for 500W peak pulse power devices at T_A = +25°C.
- P_R = 3W (for 500W peak pulse power devices at T_L = +75°C for L = 0.375 inch (9.53mm).
- P_{PR} = 500W

-55°C ≤ T_{op} ≤ +175°C, -55°C ≤ T_{stg} ≤ +175°C (ambient temperatures).

SENSITRON

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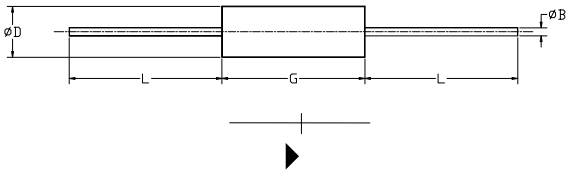
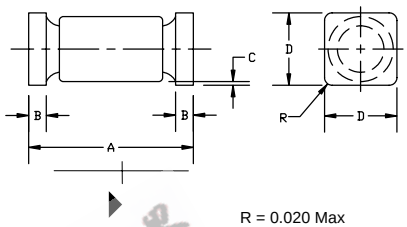
MECHANICAL DIMENSIONS: In inches / mm

AXIAL



MELF



R = 0.020 Max

500 W **1N6102A - 1N6137A**

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	ϕB	ϕD	G	L
	.026/.033	.085/.140	.140/.185	1.00/1.30
401	.66/.84	2.16/3.56	3.56/4.70	25.4/33.02

500 W **1N6102AUS - 1N6137AUS**

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	A	B	C	D
	.200/.225	.019/.028	0.003 Min	.137/.148
MELF-B	5.08/5.72	0.48/0.71	0.08 Min	3.48/3.76