

TECHNICAL DATA SHEET 4198, REV. -**TRANSIENT VOLTAGE SUPPRESSOR 1500 WATT SERIES
GLASS PASSIVATED DIE PLUS DUAL HEAT STRIPS****FEATURES**

- Low Profile
- Broad Voltage Range Available - - 6.8 to 440 V
- Broad Spectrum Transient Suppression
- 1500W Surge Capability at 1 ms
- Built-in Heat Absorbing Terminations
- Electrically Similar to MIL-PRF-19500/516

APPLICATIONS

- Connector I/O Surge Suppression
- Data Line Protection

DESCRIPTION

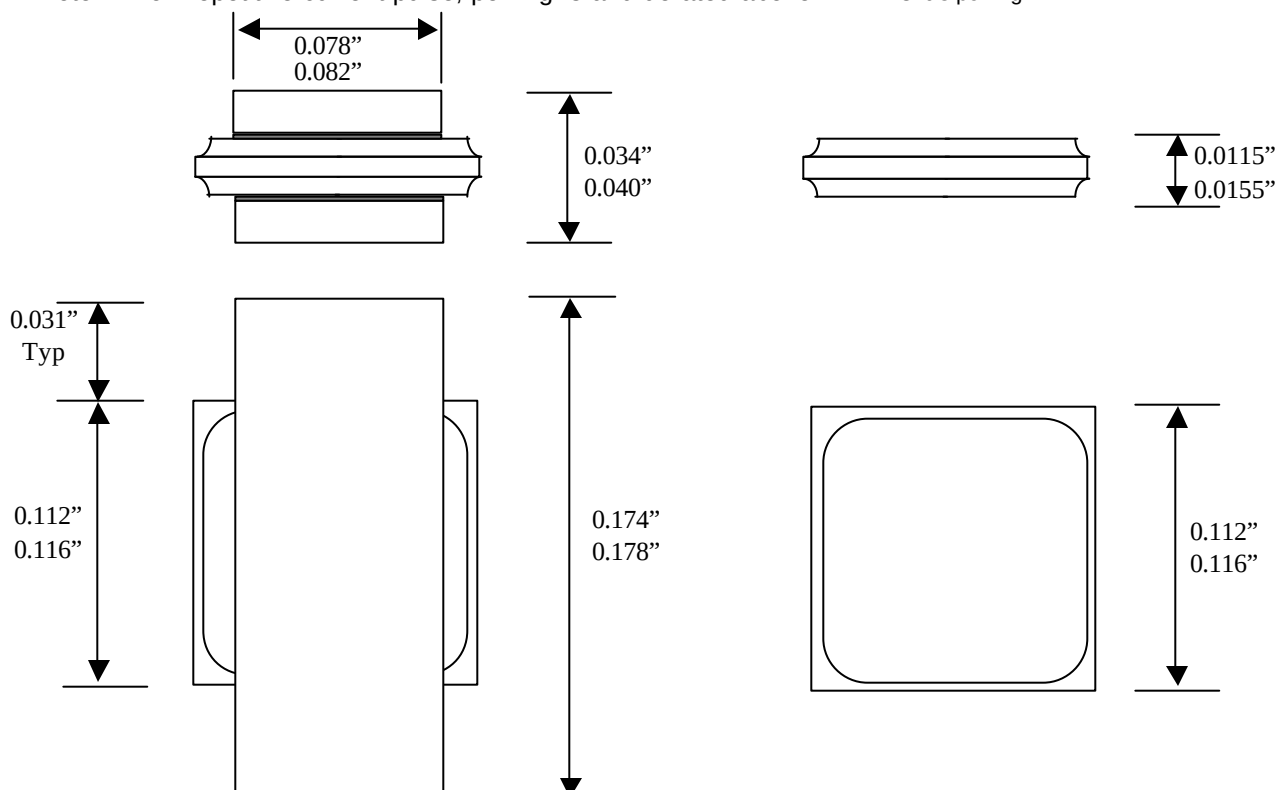
This is a bipolar transient voltage suppressor series extending from 6.8 volts to 440 volts intended for surface mount applications.

Each device comes as a "Cell" with its own heat absorbing terminals pre-bonded at high temperature. This permits mounting on printed circuit boards that cannot provide their own heat sinking. Each terminal is silver plated and is solderable permitting solder down attachment with a very small footprint. Each unit is bi-symmetrical so any orientation can be used.

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	Test Conditions	Min	TYP	Max	Unit
Peak Pulse Power	Pppm	TA = 25 8C, Tp = 1 ms (Note 1)	1500			Watts
Electrical Parameters				See Table		
Maximum Solder Temperature	Tmax	10 Second exposure			250	8C
Operating & Storage Tempature		Tj, Tstg	-55		175	8C

Note 1: Non-repetitive current pulse, per Fig. 3 and derated above TA = 25 8C per Fig. 2.



Note: "Die only configuration requires user to provide adequate energy absorption.

TECHNICAL DATA SHEET 4198, REV. -**SEN-R-1034-XXX 1500 Watt TVS Series**

Part Number	Nominal Vz (V)	Iz (mA)	Vz min @ Iz (V)	Vz max @ Iz (V)
SEN-R-1034-001	6.8	10	6.45	7.14
SEN-R-1034-002	7.5	10	7.13	7.88
SEN-R-1034-003	8.2	10	7.79	8.61
SEN-R-1034-004	9.1	10	8.65	9.55
SEN-R-1034-005	10	1	9.50	10.50
SEN-R-1034-006	11	1	10.50	11.60
SEN-R-1034-007	12	1	11.40	12.60
SEN-R-1034-008	13	1	12.40	13.70
SEN-R-1034-009	15	1	14.30	15.80
SEN-R-1034-010	16	1	15.20	16.80
SEN-R-1034-011	18	1	17.10	18.90
SEN-R-1034-012	20	1	19.00	21.00
SEN-R-1034-013	22	1	20.90	23.10
SEN-R-1034-014	24	1	22.80	25.20
SEN-R-1034-015	27	1	25.70	28.40
SEN-R-1034-016	30	1	28.50	31.50
SEN-R-1034-017	33	1	31.40	34.70
SEN-R-1034-018	36	1	34.20	37.80
SEN-R-1034-019	39	1	37.10	41.00
SEN-R-1034-020	43	1	40.90	45.20
SEN-R-1034-021	47	1	44.70	49.40
SEN-R-1034-022	51	1	48.50	53.60
SEN-R-1034-023	56	1	53.20	58.80
SEN-R-1034-024	62	1	58.90	65.10
SEN-R-1034-025	68	1	64.60	71.40
SEN-R-1034-026	75	1	71.30	78.80
SEN-R-1034-027	82	1	77.90	86.10
SEN-R-1034-028	91	1	86.50	95.50
SEN-R-1034-029	100	1	95.00	105.00
SEN-R-1034-030	110	1	105.00	116.00
SEN-R-1034-031	120	1	114.00	126.00
SEN-R-1034-032	130	1	124.00	137.00
SEN-R-1034-033	150	1	143.00	158.00
SEN-R-1034-034	160	1	152.00	168.00
SEN-R-1034-035	170	1	162.00	179.00
SEN-R-1034-036	180	1	171.00	189.00
SEN-R-1034-037	200	1	190.00	210.00
SEN-R-1034-038	220	1	209.00	231.00
SEN-R-1034-039	250	1	237.00	263.00
SEN-R-1034-040	300	1	285.00	315.00
SEN-R-1034-041	350	1	332.00	368.00
SEN-R-1034-042	400	1	380.00	420.00
SEN-R-1034-043	440	1	418.00	462.00

Vr (V)	Ir max @ Vr (uA)	Vcc (V)	Ip (A)
5.80	2000	10.5	144.8
6.40	1000	11.3	134.5
7.02	400	12.1	125.6
7.78	100	13.4	113.4
8.55	20	14.5	104.8
9.40	10	15.6	97.4
10.20	5	16.7	91.0
11.10	5	18.2	83.5
12.80	5	21.2	71.7
13.60	5	22.5	67.6
15.30	5	25.2	60.3
17.10	5	27.7	54.9
18.80	5	30.6	49.7
20.50	5	33.2	45.8
23.10	5	37.5	40.5
25.60	5	41.4	36.7
28.20	5	45.7	33.3
30.80	5	49.9	30.5
33.30	5	53.9	28.2
36.80	5	59.3	25.6
40.20	5	64.8	23.5
43.60	5	70.1	21.7
47.80	5	77.0	19.7
53.00	5	85.0	17.9
58.10	5	92.0	16.5
64.10	5	103.0	14.8
70.10	5	113.0	13.5
77.80	5	125.0	12.2
85.50	5	137.0	11.1
94.00	5	152.0	10.0
102.00	5	165.0	9.2
111.00	5	179.0	8.5
128.00	5	207.0	7.3
136.00	5	219.0	6.9
145.00	5	234.0	6.5
154.00	5	246.0	6.2
171.00	5	274.0	5.5
185.00	5	328.0	4.6
214.00	5	344.0	4.4
256.00	5	414.0	3.7
300.00	5	482.0	3.2
342.00	5	548.0	2.8
376.00	5	600.0	2.5

TECHNICAL DATA

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