1500 Watt Transient Voltage Suppressor Bi-directional Chip

(6.8 to 200Volts)

SERIES TYPE	BREAKDOWN VOLTAGE $V_{(BR)}$ I AT $I_{(BR)}$	TEST CURRENT $I_{(BR)}$	WORKING PEAK REVERSE VOLTAGE V_{RWM}	MAXIMUM REVERSE CURRENT I_{R1} .	MAXIMUM CLAMPING VOLTAGE V_C(MAX) @ I_P t_P = 1ms	MAXIMUM PEAK PULSE CURRENT I_P	MAXIMUM TEMP.COEF F. OF $V_{(BR)}$ α $V_{(BR)}$	MAXIMUM REVERSE CURRENT AT T_A = 150 °C I_{R2}	CHIP SIZE
1500W	Min. V dc	Ma dc	V dc	µA dc	V (pk)	A (pk)	% /°C	µA dc	MIL
1C6138	6.12	175	5.2	500	11.0	136.4	.05	12,000	125
1C6138A	6.46	175	5.2	500	10.5	142.8	.05	12,000	125
1C6139	6.75	175	5.7	300	11.8	127.1	.06	3,000	125
1C6139A	7.13	175	5.7	300	11.2	133.9	.06	3,000	125
1C6140	7.38	150	6.2	100	12.7	118.1	.06	2,000	125
1C6140A	7.79	150	6.2	100	12.1	124.0	.06	2,000	125
1C6141	8.19	150	6.9	100	14.0	107.1	.06	1,200	125
1C6141A	8.65	150	6.9	100	13.4	111.9	.06	1,200	125
1C6142	9.00	125	7.6	100	15.2	98.7	.07	800	125
1C6142A	9.50	125	7.6	100	14.5	103.4	.07	800	125
1C6143	9.90	125	8.4	20	16.3	92.0	.07	800	125
1C6143A	10.45	125	8.4	20	15.6	96.2	.07	800	125
1C6144	10.80	100	9.1	20	17.7	84.7	.07	600	125
1C6144A	11.40	100	9.1	20	16.9	88.8	.07	600	125
1C6145	11.70	100	9.9	20	19.0	78.9	.08	600	125
1C6145A	12.35	100	9.9	20	18.2	82.4	.08	600	125
1C6146	13.50	75	11.4	20	21.9	68.5	.08	400	125
1C6146A	14.25	75	11.4	20	21.0	71.4	.08	400	125
1C6147	14.10	75	12.2	20	23.4	64.1	.08	400	125
1C6147A	15.20	75	12.2	20	22.3	67.3	.08	400	125
1C6148	16.20	65	13.7	10	26.3	57.0	.085	400	125
1C6148A	17.10	65	13.7	10	25.1	59.8	.085	400	125
1C6149	18.00	65	15.2	5	29.0	51.7	.085	400	125
1C6149A	19.00	65	15.2	5	27.7	54.2	.085	400	125
1C6150	19.8	50	16.7	5	31.9	47.0	.085	400	125
1C6150A	20.9	50	16.7	5	30.5	49.2	.085	400	125
1C6151	21.6	50	18.2	5	34.8	43.1	.09	400	125
1C6151A	22.8	50	18.2	5	33.3	45.0	.09	400	125
1C6152	24.3	50	20.6	5	39.2	38.3	.09	400	125
1C6152A	25.7	50	20.6	5	37.4	40.1	.09	400	125

• 221 West Industry Court • Deer Park, NY 11729-4681 • Phone (631) 586-7600 • Fax (631) 242-9798 •
• World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •

1500 Watt Transient Voltage Suppressor Bi-directional Chip

(6.8 to 200Volts)

SERIES TYPE	BREAKDOWN VOLTAGE $V_{(BR)}$1 AT $I_{(BR)}$	TEST CURRENT $I_{(BR)}$	WORKING PEAK REVERSE VOLTAGE V_{RWM}	MAXIMUM REVERSE CURRENT I_{R1}	MAXIMUM CLAMPING VOLTAGE V_C(MAX) @ I_P t_P = 1ms	MAXIMUM PEAK PULSE CURRENT I_P	MAXIMUM TEMP.COEF F. OF $V_{(BR)}$ $\alpha V_{(BR)}$	MAXIMUM REVERSE CURRENT AT T_A = 150 °C I_{R2}	CHIP SIZE
1500W	Min. V dc	mA dc	V dc	µA dc	V (pk)	A (pk)	% /°C	µA dc	MIL
1C6153	27.0	40	22.8	5	43.6	34.4	.09	400	125
1C6153A	28.5	40	22.8	5	41.6	36.0	.09	400	125
1C6154	29.7	40	25.1	5	47.9	31.3	.095	400	125
1C6154A	31.4	40	25.1	5	45.7	32.8	.095	400	125
1C6155	32.4	30	27.4	5	52.3	28.7	.095	400	125
1C6155A	34.2	30	27.4	5	49.9	30.1	.095	400	125
1C6156	35.1	30	29.7	5	56.2	26.7	.095	400	125
1C6156A	37.1	30	29.7	5	53.6	28.0	.095	400	125
1C6157	38.7	30	32.7	5	62.0	24.2	.095	400	125
1C6157A	40.9	30	32.7	5	59.1	25.4	.095	400	125
1C6158	42.3	25	35.8	5	67.7	22.2	.095	400	125
1C6158A	44.7	25	35.8	5	64.6	23.2	.095	400	125
1C6159	45.9	25	38.8	5	73.5	20.4	.095	400	125
1C6159A	48.5	25	38.8	5	70.1	21.4	.095	400	125
1C6160	50.4	20	42.6	5	80.7	18.6	.095	400	125
1C6160A	53.2	20	42.6	5	77.0	19.5	.095	400	125
1C6161	55.8	20	47.1	5	89.3	16.8	.100	400	125
1C6161A	58.9	20	47.1	5	85.3	17.6	.100	400	125
1C6162	61.2	20	51.7	5	98.0	15.3	.100	400	125
1C6162A	64.6	20	51.7	5	97.1	15.4	.100	400	125
1C6163	67.5	20	56.0	5	108.1	13.9	.100	400	125
1C6163A	71.3	20	56.0	5	103.1	14.5	.100	400	125
1C6164	73.8	15	62.2	5	118.2	12.7	.100	400	125
1C6164A	77.9	15	62.2	5	112.8	13.3	.100	400	125
1C6165	81.9	15	69.2	5	131.1	11.4	.100	400	125
1C6165A	86.5	15	69.2	5	125.1	12.0	.100	400	125
1C6166	90.0	12	76.0	5	144.1	10.4	.100	400	125
1C6166A	95.0	12	76.0	5	137.6	10.9	.100	400	125
1C6167	99.0	12	83.6	5	158.5	9.5	.100	400	125
1C6167A	104.5	12	83.6	5	151.3	9.9	.100	400	125

• 221 West Industry Court • Deer Park, NY 11729-4681 • Phone (631) 586-7600 • Fax (631) 242-9798 •
• World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •

1500 Watt Transient Voltage Suppressor Bi-directional Chip

(6.8 to 200Volts)

SERIES TYPE	BREAKDOWN VOLTAGE $V_{(BR)}$ AT $I_{(BR)}$	TEST CURRENT $I_{(BR)}$	WORKING PEAK REVERSE VOLTAGE V_{RWM}	MAXIMUM REVERSE CURRENT I_{R1}	MAXIMUM CLAMPING VOLTAGE V_C(MAX) @ I_P t_P = 1ms	MAXIMUM PEAK PULSE CURRENT I_P	MAXIMUM TEMP.COEF F. OF $V_{(BR)}$ α $V_{(BR)}$	MAXIMUM REVERSE CURRENT AT T_A = 150 °C I_{R2}	CHIP SIZE
1500W	Min. V dc	mA dc	V dc	µA dc	V (pk)	A (pk)	% /°C	µA dc	MIL
1C6168	108.0	10	91.2	5	172.9	8.7	.100	400	125
1C6168A	114.0	10	91.2	5	165.1	9.1	.100	400	125
1C6169	117.0	10	98.8	5	187.3	8.0	.105	400	125
1C6169A	123.5	10	98.8	5	178.8	8.4	.105	400	125
1C6170	135.0	8	114.0	5	216.2	6.9	.105	400	125
1C6170A	142.5	8	114.0	5	206.3	7.3	.105	400	125
1C6171	144	8	121.6	5	228.8	6.6	.105	400	125
1C6171A	152	8	121.6	5	218.4	6.9	.105	400	125
1C6172	162	5	136.8	5	257.4	5.8	.110	400	125
1C6172A	171	5	136.8	5	245.7	6.1	.110	400	125
1C6173	180	5	152.0	5	286.0	5.2	.110	400	125
1C6173A	190	5	152.0	5	273.0	5.5	.110	400	125

• 221 West Industry Court • Deer Park, NY 11729-4681 • Phone (631) 586-7600 • Fax (631) 242-9798 •
• World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •