Central™
Semiconductor Corp.
145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824
Manufacturers of World Class Discrete Semiconductors

1.5CE6.8A THRU 1.5CE400A
1.5CE6.8CA THRU 1.5CE400CA

1.5W TRANSIENT SUPPRESSOR
5% TOLERANCE

AXIAL LEAD EPOXY CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1.5CE series types are epoxy molded axial lead transient suppressors designed to protect voltage sensitive components from high voltage transients. These highly reliable devices can withstand a peak pulse power surge of 1500 watts for 1.0ms.

MAXIMUM RATINGS (T_L=25°C unless otherwise noted)

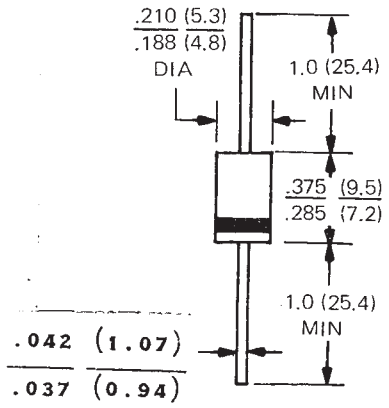
	SYMBOL		UNIT
Peak Power Dissipation (1.0ms)	P_{DM}	1500	W
Steady State Power Dissipation (T_L=75°C, L.L=$\frac{3}{8}$")	P_D	5.0	W
Forward Surge Current	I_{FSM}	200	A
Operating and Storage Junction Temperature	T_J, T_{STG}	-65 TO +175	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

TYPE NO.	V_{BR} @ I_T (V)	(mA)	V_{RWM} (V)	I_R @ V_{RWM} (μA)	I_{RSM} (A)	V_{RSM} @ I_{RSM} (V)	MAX TEMP COEF OF V_{BR} (%/°C)
1.5CE6.8A	6.8	10	5.80	1000	143	10.5	0.057
1.5CE7.5A	7.5	10	6.40	500	132	11.3	0.061
1.5CE8.2A	8.2	10	7.02	200	124	12.1	0.065
1.5CE9.1A	9.1	1.0	7.78	50	112	13.4	0.068
1.5CE10A	10	1.0	8.55	10	103	14.5	0.073
1.5CE11A	11	1.0	9.40	5.0	96	15.6	0.075
1.5CE12A	12	1.0	10.2	5.0	90	16.7	0.078
1.5CE13A	13	1.0	11.1	5.0	82	18.2	0.081
1.5CE15A	15	1.0	12.8	5.0	71	21.2	0.084
1.5CE16A	16	1.0	13.6	5.0	67	22.5	0.086
1.5CE18A	18	1.0	15.3	5.0	59.5	25.2	0.088
1.5CE20A	20	1.0	17.1	5.0	54	27.7	0.090
1.5CE22A	22	1.0	18.8	5.0	49	30.6	0.092
1.5CE24A	24	1.0	20.5	5.0	45	33.2	0.094
1.5CE27A	27	1.0	23.1	5.0	40	37.5	0.096
1.5CE30A	30	1.0	25.6	5.0	36	41.4	0.097
1.5CE33A	33	1.0	28.2	5.0	33	45.7	0.098
1.5CE36A	36	1.0	30.8	5.0	30	49.9	0.099
1.5CE39A	39	1.0	33.3	5.0	28	53.9	0.100
1.5CE43A	43	1.0	36.8	5.0	25.3	59.3	0.101
1.5CE47A	47	1.0	40.2	5.0	23.2	64.8	0.101
1.5CE51A	51	1.0	43.6	5.0	21.4	70.1	0.102
1.5CE56A	56	1.0	47.8	5.0	19.5	77	0.103
1.5CE62A	62	1.0	53.0	5.0	17.7	85	0.104
1.5CE68A	68	1.0	58.1	5.0	16.3	92	0.104
1.5CE75A	75	1.0	64.1	5.0	14.6	103	0.105
1.5CE82A	82	1.0	70.1	5.0	13.3	113	0.105
1.5CE91A	91	1.0	77.8	5.0	12	125	0.106
1.5CE100A	100	1.0	85.5	5.0	11	137	0.106

ELECTRICAL CHARACTERISTICS (T_A=25°C) continued

TYPE NO.	V_{BR} @ I_T (V)	(mA)	V_{RWM} (V)	I_R @ V_{RWM} (µA)	I_{RSM} (A)	V_{RSM} @ I_{RSM} (V)	MAX TEMP COEF OF V_{BR} (%/°C)
1.5CE110A	110	1.0	94.0	5.0	9.9	152	0.107
1.5CE120A	120	1.0	102	5.0	9.1	165	0.107
1.5CE130A	130	1.0	111	5.0	8.4	179	0.107
1.5CE150A	150	1.0	128	5.0	7.2	207	0.108
1.5CE160A	160	1.0	136	5.0	6.8	219	0.108
1.5CE170A	170	1.0	145	5.0	6.4	234	0.108
1.5CE180A	180	1.0	154	5.0	6.1	246	0.108
1.5CE200A	200	1.0	171	5.0	5.5	274	0.108
1.5CE220A	220	1.0	185	5.0	4.6	328	0.108
1.5CE250A	250	1.0	214	5.0	5.0	344	0.110
1.5CE300A	300	1.0	256	5.0	5.0	414	0.110
1.5CE350A	350	1.0	300	5.0	4.0	482	0.110
1.5CE400A	400	1.0	342	5.0	4.0	548	0.110



FOR BIPOLAR DEVICE, USE "CA" SUFFIX, EX: 1.5CE6.8CA