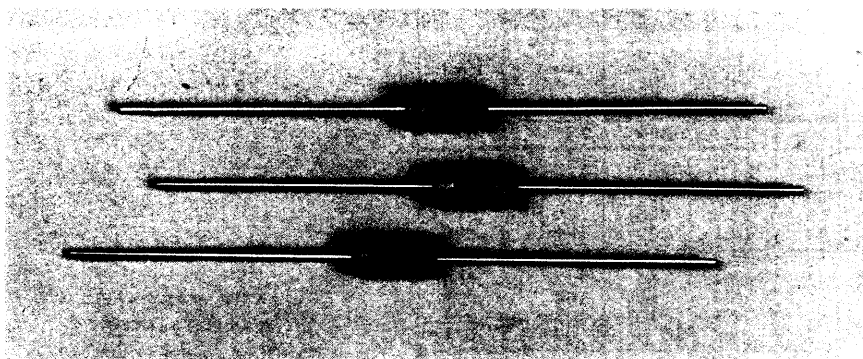


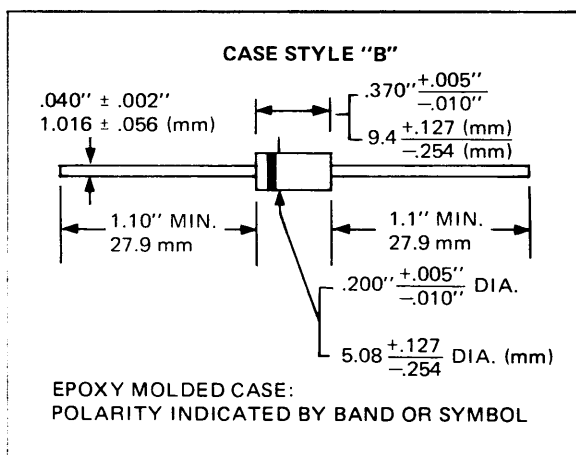
Silicon Voltage Transient Suppressor Diodes



1.5 SE6.8
THRU
1.5SE400A

The 1.5SE6.8 Series of voltage transient suppressor diodes are designed to protect electronic equipment from failure due to voltage transients. Their avalanche characteristics coupled with special internal design for rapid junction cooling under pulse power stress makes them most useful in airborne, telephone and other equipments where large voltage transients are frequent.

The inherent fast response of these devices and broad choice of stand-off voltage ratings enables the designer to protect a wide range of both active and passive circuit components which may be damaged by voltage transients.



MAXIMUM RATINGS:

- 1500 Watts of Peak Pulse Power Dissipation @ 25°C T_A (See Fig. 3)
- D.C. Power Dissipation: 5.0 W @ T_L = 75°C, Lead Length = 3/8"
- Clamping Time < 1 × 10⁻¹² Seconds
- 8.3 msec (60 Hz) Forward Surge Current Rating 200 amps
- Forward Voltage Drop 3.5 Volts Max. @ 100 amps Peak
- Operating and Storage Temperature: -65°C to +175°C

For bipolar versions use C or CA
suffix letters for types 1.5SE7.5
thru 1.5SE220

Semicon
INC.

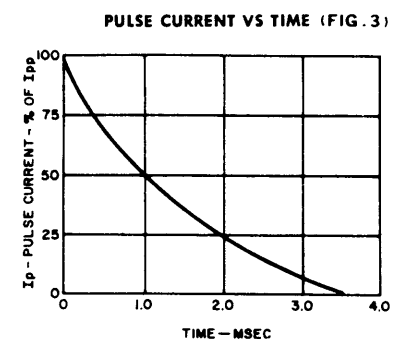
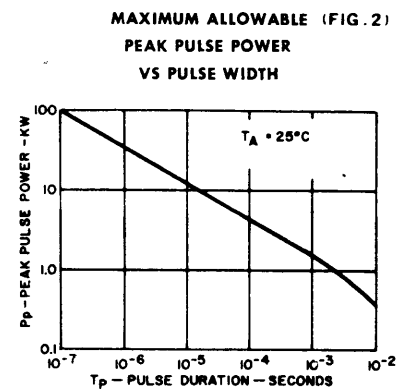
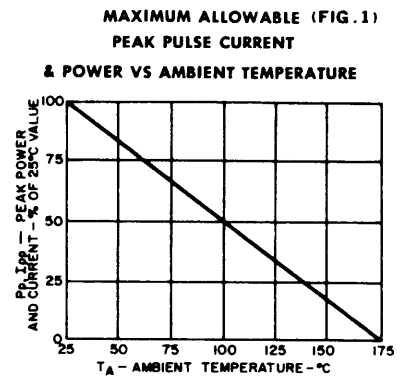


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TELEFON 07131 / 5 30 66 · TELEX 07 28 639

ELECTRICAL CHARACTERISTICS at 25°C:

TYPE NUMBER	REVERSE STAND OFF VOLTAGE V_R VOLTS	BREAKDOWN VOLTAGE @ I_T VOLTS	I_T mA	MAXIMUM CLAMPING VOLTAGE @ I_{PP} (1 mSEC) V_C VOLTS	MAXIMUM REVERSE LEAKAGE @ V_R I_R μA	MAXIMUM PEAK PULSE CURRENT I_{PP}^{**} A	MAXIMUM TEMPERATURE COEFFICIENT OF BV %/°C
1.5SE6.8	5.50	6.45 - 7.14	10	10.8	1000	139	.057
1.5SE6.8A	5.80	6.45 - 7.14	10	10.5	1000	143	.057
1.5SE7.5	6.05	6.75 - 8.25	10	11.7	500	128	.061
1.5SE7.5A	6.40	7.13 - 7.88	10	11.3	500	132	.061
1.5SE8.2	6.63	7.38 - 9.02	10	12.5	200	120	.065
1.5SE8.2A	7.02	7.79 - 8.61	10	12.1	200	124	.065
1.5SE9.1	7.37	8.19 - 10.0	1	13.8	50	109	.068
1.5SE9.1A	7.78	8.65 - 9.55	1	13.4	50	112	.068
1.5SE10	8.10	9.00 - 11.0	1	15.0	50	100	.073
1.5SE10A	8.55	9.5 - 10.5	1	14.5	10	103	.073
1.5SE11	8.92	9.9 - 12.1	1	16.2	5	93	.075
1.5SE11A	9.40	10.5 - 11.6	1	15.6	5	96	.075
1.5SE12	9.72	10.8 - 13.2	1	17.3	5	87	.078
1.5SE12A	10.2	11.4 - 12.6	1	16.7	5	90	.078
1.5SE13	10.5	11.7 - 14.3	1	19.0	5	79	.081
1.5SE13A	11.1	12.4 - 13.7	1	18.2	5	82	.081
1.5SE15	12.1	13.5 - 16.5	1	22.0	5	68	.084
1.5SE15A	12.8	14.3 - 15.8	1	21.2	5	71	.084
1.5SE16	12.9	14.4 - 17.6	1	23.5	5	64	.086
1.5SE16A	13.6	15.2 - 16.8	1	22.5	5	67	.086
1.5SE18	14.5	16.2 - 19.8	1	26.5	5	56.5	.088
1.5SE18A	15.3	17.1 - 18.0	1	25.2	5	59.5	.088
1.5SE20	16.2	18.0 - 22.0	1	29.1	5	51.5	.090
1.5SE20A	17.1	19.0 - 21.0	1	27.7	5	54	.090
1.5SE22	17.8	19.8 - 24.2	1	31.9	5	47	.092
1.5SE22A	18.8	20.9 - 23.1	1	30.6	5	49	.092
1.5SE24	19.4	21.6 - 26.4	1	34.7	5	43	.094
1.5SE24A	20.5	22.8 - 25.2	1	33.2	5	45	.094
1.5SE27	21.8	24.3 - 29.7	1	39.1	5	38.5	.096
1.5SE27A	23.1	25.7 - 28.4	1	37.5	5	40	.096
1.5SE30	24.3	27.0 - 33.0	1	43.5	5	34.5	.097
1.5SE30A	25.6	28.5 - 31.5	1	41.4	5	36	.097
1.5SE33	26.8	29.7 - 36.3	1	47.7	5	31.5	.098
1.5SE33A	28.2	31.4 - 34.7	1	45.7	5	33	.098
1.5SE36	29.1	32.4 - 39.6	1	52.0	5	29	.099
1.5SE36A	30.8	34.2 - 37.8	1	49.9	5	30	.099
1.5SE39	31.6	35.1 - 42.9	1	56.4	5	26.5	.100
1.5SE39A	33.3	37.1 - 41.0	1	53.9	5	28	.100
1.5SE43	34.8	38.7 - 47.3	1	61.9	5	24	.101
1.5SE43A	36.8	40.9 - 45.2	1	59.3	5	25.3	.101
1.5SE47	38.1	42.3 - 51.7	1	67.8	5	22.2	.101
1.5SE47A	40.2	44.7 - 49.4	1	64.8	5	21.2	.101
1.5SE51	41.3	45.9 - 56.1	1	73.5	5	20.4	.102
1.5SE51A	43.6	48.5 - 53.6	1	70.1	5	21.4	.102
1.5SE56	45.4	50.4 - 61.6	1	80.5	5	18.6	.103
1.5SE56A	47.8	53.2 - 58.8	1	77.0	5	19.5	.103
1.5SE62	50.2	55.8 - 68.2	1	89.0	5	16.9	.104
1.5SE62A	53.0	58.9 - 65.1	1	85.0	5	17.7	.104
1.5SE68	55.1	61.2 - 74.8	1	98.0	5	15.3	.104
1.5SE68A	58.1	64.6 - 71.4	1	92.0	5	16.3	.104
1.5SE75	60.7	67.5 - 82.5	1	108.0	5	13.9	.105
1.5SE75A	64.1	71.3 - 78.8	1	103.0	5	14.6	.105
1.5SE82	66.4	73.8 - 90.2	1	118.0	5	12.7	.105
1.5SE82A	70.1	77.9 - 86.1	1	113.0	5	13.3	.105
1.5SE91	73.7	81.9 - 100.0	1	131.0	5	11.4	.106
1.5SE91A	77.8	86.5 - 95.5	1	125.0	5	12.0	.106
1.5SE100	81.0	90.0 - 110.0	1	144.0	5	10.4	.106
1.5SE100A	85.5	95.0 - 105.0	1	137.0	5	11.0	.106
1.5SE110	89.2	99.0 - 121.0	1	158.0	5	9.5	.107
1.5SE110A	94.0	105.0 - 116.0	1	152.0	5	9.9	.107
1.5SE120	97.2	108.0 - 132.0	1	173.0	5	8.7	.107
1.5SE120A	102.0	114.0 - 126.0	1	165.0	5	9.1	.107
1.5SE130	105.0	117.0 - 143.0	1	287.0	5	8.0	.107
1.5SE130A	111.0	124.0 - 137.0	1	279.0	5	8.4	.107
1.5SE150	121.0	135.0 - 165.0	1	215.0	5	7.0	.108
1.5SE150A	128.0	143.0 - 158.0	1	207.0	5	7.2	.108
1.5SE160	130.0	144.0 - 176.0	1	230.0	5	6.5	.108
1.5SE160A	136.0	152.0 - 168.0	1	219.0	5	6.8	.108
1.5SE170	138.0	153.0 - 187.0	1	244.0	5	6.2	.108
1.5SE170A	145.0	162.0 - 179.0	1	234.0	5	6.4	.108
1.5SE180	146.0	162.0 - 198.0	1	258.0	5	5.8	.108
1.5SE180A	154.0	171.0 - 189.0	1	246.0	5	6.1	.108
1.5SE200	162.0	180.0 - 220.0	1	287.0	5	5.2	.108
1.5SE200A	171.0	190.0 - 210.0	1	274.0	5	5.5	.108
1.5SE220	175.0	198.0 - 242.0	1	344.0	5	4.3	.110
1.5SE220A	185.0	209.0 - 231.0	1	328.0	5	4.6	.110
1.5SE250	202.0	225.0 - 275.0	1	360.0	5	5.0	.110
1.5SE250A	214.0	237.0 - 263.0	1	344.0	5	5.0	.110
1.5SE300	243.0	270.0 - 330.0	1	430.0	5	5.0	.110
1.5SE300A	256.0	285.0 - 315.0	1	414.0	5	5.0	.110
1.5SE350	284.0	315.0 - 385.0	1	504.0	5	4.0	.110
1.5SE350A	300.0	333.0 - 368.0	1	482.0	5	4.0	.110
1.5SE400	324.0	360.0 - 440.0	1	574.0	5	4.0	.110
1.5SE400A	342.0	380.0 - 420.0	1	548.0	5	4.0	.110



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