Littelfuse®

ELECTRONIC Products

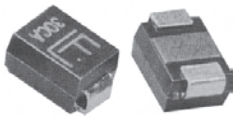
SILICON AVALANCHE DIODES

500, 600, 1500, 5000 AND 15000 WATT AXIAL LEADED TRANSIENT VOLTAGE SUPPRESSORS

ELECTRICAL SPECIFICATION @ TAMB 25˚C

Cat. No.	Watts	Reverse Stand off Voltage V_R (Volts)	Breakdown Voltage V_{BR} (Volts) @ I_T Min	Breakdown Voltage V_{BR} (Volts) @ I_T Max	Maximum Clamping Voltage V_C @ I_{PP} (Volts)	Maximum Peak Pulse Current I_{PP} (A)	Maximum Reverse Leakage I_R @ V_R (µA)	Net Price
UNI-POLAR								
SA5.0A	500	5.0	6.40	7.00	9.2	55.4	600	**$.40**
SA6.0A	500	6.0	6.67	7.37	10.3	49.5	600	**.40**
SA6.5A	500	6.5	7.22	7.98	11.2	45.5	400	**.40**
SA12A	500	12.0	13.30	14.70	19.9	25.6	3	**.40**
SA15A	500	15.0	16.70	18.50	24.4	20.9	3	**.40**
SA33A	500	33.0	36.70	40.60	53.3	9.6	3	**.40**
P6KE6.8A	600	5.80	6.45	7.14	10.5	58.1	1000	**.34**
P6KE9.1A	600	7.78	8.65	9.55	13.4	45.5	50	**.34**
P6KE15A	600	12.80	14.30	15.80	21.1	28.8	5	**.34**
P6KE18A	600	15.30	17.10	18.90	25.2	24.2	5	**.34**
P6KE20A	600	17.10	19.00	21.00	27.7	22.0	5	**.34**
P6KE30A	600	25.60	28.50	31.50	41.4	14.7	5	**.34**
P6KE33A	600	28.20	31.40	34.70	45.7	13.3	5	**.34**
♁ **1.5KE6.8A**	1500	5.80	6.45	7.14	10.5	144.8	1000	**.61**
♁ **1.5KE7.5A**	1500	6.40	7.13	7.88	11.3	134.5	500	**.61**
♁ **1.5KE10A**	1500	8.55	9.50	10.50	14.5	104.8	10	**.61**
♁ **1.5KE15A**	1500	12.80	14.30	15.80	21.2	71.7	5	**.61**
♁ **1.5KE18A**	1500	15.30	17.10	18.90	25.2	60.3	5	**.61**
♁ **1.5KE30A**	1500	25.60	28.50	31.50	41.4	36.7	5	**.61**
♁ **1.5KE150A**	1500	128.0	143.00	158.00	207.0	7.3	5	**.61**
♁ **1.5KE250A**	1500	214.0	237.00	263.00	344.0	4.4	5	**.86**
♁ **1.5KE300A**	1500	256.0	285.00	315.00	414.0	3.7	5	**.86**
♁ **1.5KE400A**	1500	342.0	380.00	420.00	548.0	2.8	5	**.86**
♁ **5KP15A**	5000	15.0	16.70	18.50	24.4	205.0	10	**3.37**
♁ **5KP30A**	5000	30.0	33.30	36.80	48.4	103.0	10	**3.37**
♁ **5KP33A**	5000	33.0	36.70	40.60	53.3	93.9	10	**3.37**
♁ **5KP36A**	5000	36.0	40.00	44.20	58.1	86.1	10	**3.37**
♁ **5KP43A**	5000	43.0	47.80	52.80	69.4	72.1	10	**3.37**
♁ **5KP90A**	5000	90.0	100.00	111.00	146.0	34.3	10	**3.37**
♁ **15KP24A**	15000	24	—	26.7	40.5	369	150	**22.84**
♁ **15KP30A**	15000	30	—	33.3	50.7	296	15	**22.84**
♁ **15KP33A**	15000	33	—	36.7	54.8	274	10	**22.84**
♁ **15KP36A**	15000	36	—	40.0	59.7	251	10	**22.84**
BI-POLAR								
SA5.0CA	500	5.0	6.40	7.00	9.2	55.4	600	**.45**
SA6.0CA	500	6.0	6.67	7.37	10.3	49.5	600	**.45**
SA6.5CA	500	6.5	7.22	7.98	11.2	45.5	400	**.45**
SA12CA	500	12.0	13.30	14.70	19.9	25.6	3	**.45**
SA15CA	500	15.0	16.70	18.50	24.4	20.9	3	**.45**
SA33CA	500	33.0	36.70	40.60	53.3	9.6	3	**.45**
P6KE6.8CA	600	5.80	6.45	7.14	10.5	58.1	1000	**.39**
P6KE9.1CA	600	7.78	8.65	9.55	13.4	45.5	50	**.39**
P6KE15CA	600	12.80	14.30	15.80	21.1	28.8	5	**.39**
P6KE18CA	600	15.30	17.10	18.90	25.2	24.2	5	**.39**
P6KE20CA	600	17.10	19.00	21.00	27.7	22.0	5	**.39**
P6KE30CA	600	25.60	28.50	31.50	41.4	14.7	5	**.39**
P6KE33CA	600	28.20	31.40	34.70	45.7	13.3	5	**.39**
P6KE68CA	600	58.10	64.60	71.40	92.0	6.6	5	**.39**
♁ **1.5KE6.8CA**	1500	5.80	6.45	7.14	10.5	144.8	1000	**.67**
♁ **1.5KE7.5CA**	1500	6.40	7.13	7.88	11.3	134.5	500	**.67**
♁ **1.5KE10CA**	1500	8.55	9.50	10.50	14.5	104.8	10	**.67**
♁ **1.5KE15CA**	1500	12.80	14.30	15.80	21.2	71.7	5	**.67**
♁ **1.5KE18CA**	1500	15.30	17.10	18.90	25.2	60.3	5	**.67**
♁ **1.5KE30CA**	1500	25.60	28.50	31.50	41.4	36.7	5	**.67**
♁ **1.5KE150CA**	1500	128.00	143.00	158.00	207.0	7.3	5	**.67**
♁ **1.5KE250CA**	1500	214.00	237.00	263.00	344.0	4.4	5	**.94**
♁ **1.5KE300CA**	1500	256.00	285.00	315.00	414.0	3.7	5	**.94**
♁ **1.5KE400CA**	1500	342.00	380.00	420.00	548.0	2.8	5	**.94**
♁ **5KP15CA**	5000	15.0	16.70	18.50	24.4	205.0	10	**3.71**
♁ **5KP30CA**	5000	30.0	33.30	36.80	48.4	103.0	10	**3.71**
♁ **5KP33CA**	5000	33.0	36.70	40.60	53.3	93.9	10	**3.71**
♁ **5KP36CA**	5000	36.0	40.00	44.20	58.1	86.1	10	**3.71**
♁ **5KP43CA**	5000	43.0	47.80	52.80	69.4	72.1	10	**3.71**
♁ **5KP90CA**	5000	90.0	100.00	111.00	146.0	34.3	10	**5.95**
♁ **15KP24CA**	15000	24	—	26.7	40.5	369	150	**25.12**
♁ **15KP30CA**	15000	30	—	33.3	50.7	296	15	**25.12**
♁ **15KP33CA**	15000	33	—	36.7	54.8	274	10	**25.12**
♁ **15KP36CA**	15000	36	—	40.0	59.7	251	10	**25.12**

NOTE: For bi-directional type having Vrwm of 10 volts and less, the IR limit is double. For parts withoug A, the VBR is +10%

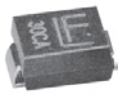


SILICON AVALANCHE DIODES
600 WATT SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

ELECTRICAL SPECIFICATION @ TAMB 25˚C

Cat. No.	Watts	Reverse Stand off Voltage V_R (Volts)	Breakdown Voltage V_{BR} (Volts) @ I_T Min	Breakdown Voltage V_{BR} (Volts) @ I_T Max	Maximum Clamping Voltage V_C @ I_{PP} (Volts)	Maximum Peak Pulse Current I_{PP} (A)	Maximum Reverse Leakage I_R @ V_R (µA)	Net Price
UNI-POLAR								
SMBJ5.0A	600	5.0	6.40	7.00	9.2	65.3	800	**$.38**
SMBJ10A	600	10.0	11.10	12.30	17.0	35.3	5	**.38**
SMBJ15A	600	15.0	16.70	18.50	24.4	24.6	5	**.38**
SMBJ18A	600	18.0	20.00	22.10	29.2	20.6	5	**.38**
SMBJ24A	600	24.0	26.70	29.50	38.9	15.5	5	**.38**
SMBJ28A	600	28.0	31.10	34.40	45.4	13.3	5	**.38**
SMBJ33A	600	33.0	36.70	40.60	53.3	11.3	5	**.38**
SMBJ36A	600	36.0	40.00	44.20	58.1	10.4	5	**.38**
P6SMBJ6.8A	600	5.80	6.45	7.14	10	10.5	1000	**.38**
P6SMBJ10A	600	8.55	9.50	10.50	14.5	42.1	10	**.38**
P6SMBJ15A	600	12.80	14.30	15.80	21.2	28.8	5	**.38**
P6SMBJ18A	600	15.30	17.10	18.90	25.5	24.2	5	**.38**
P6SMBJ24A	600	20.50	22.80	25.20	33.2	18.4	5	**.38**
P6SMBJ27A	600	23.10	25.70	28.40	37.5	16.3	5	**.38**
P6SMBJ33A	600	28.20	31.40	34.70	45.7	13.3	5	**.38**
P6SMBJ36A	600	30.80	34.20	37.80	49.9	12.2	5	**.38**
BI-POLAR								
SMBJ5.0CA	600	5.0	6.40	7.00	9.2	65.3	800	**.42**
SMBJ10CA	600	10.0	11.10	12.30	17.0	35.3	5	**.42**
SMBJ15CA	600	15.0	16.70	18.50	24.4	24.6	5	**.42**
SMBJ18CA	600	18.0	20.00	22.10	29.2	20.6	5	**.42**
SMBJ24CA	600	24.0	26.70	29.50	38.9	15.5	5	**.42**
SMBJ28CA	600	28.0	31.10	34.40	45.4	13.3	5	**.42**
SMBJ33CA	600	33.0	36.70	40.60	53.3	11.3	5	**.42**
SMBJ36CA	600	36.0	40.00	44.20	58.1	10.4	5	**.42**
P6SMBJ6.8CA	600	5.80	6.45	7.14	10	10.5	1000	**.42**
P6SMBJ10CA	600	8.55	9.50	10.50	14.5	42.1	10	**.42**
P6SMBJ15CA	600	12.80	14.30	15.80	21.2	28.8	5	**.42**
P6SMBJ18CA	600	15.30	17.10	18.90	25.5	24.2	5	**.42**
P6SMBJ24CA	600	20.50	22.80	25.20	33.2	18.4	5	**.42**
P6SMBJ27CA	600	23.10	25.70	28.40	37.5	16.3	5	**.42**
P6SMBJ33CA	600	28.20	31.40	34.70	45.7	13.3	5	**.42**
P6SMBJ36CA	600	30.80	34.20	37.80	49.9	12.2	5	**.42**

NOTE: For bi-directional type having Vrwm of 10 volts and less, the IR limit is double. For parts without A, the VBR is +10%



SILICON AVALANCHE DIODES
1000 WATT SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

ELECTRICAL SPECIFICATION @ TAMB 25˚C

Cat. No	Watts	Reverse Stand off Voltage V_R (Volts)	Breakdown Voltage V_{BR} (Volts) @ I_T Min	Breakdown Voltage V_{BR} (Volts) @ I_T Max	I_T (mA)	Maximum Clamping Voltage V_C @ I_{PP} (Volts)	Maximum Peak Pulse Current I_{PP} (A)	Maximum Reverse Leakage I_R @ V_R (µA)	Net Price
1KSMBJ6V8	1000	5.50	6.12	7.46	10.0	10.8	92.5	1000.0	**$.64**
1KSMBJ10	1000	8.55	9.50	10.5	1.0	14.5	68.3	10.0	**.64**
1KSMBJ15	1000	12.8	14.3	15.8	1.0	21.2	46.7	5.0	**.64**
1KSMBJ18	1000	15.3	17.1	18.9	1.0	25.2	40.0	5.0	**.64**
1KSMBJ24	1000	20.5	22.8	25.2	1.0	33.2	30.0	5.0	**.64**
1KSMBJ27	1000	23.1	25.7	28.4	1.0	37.5	26.7	5.0	**.64**
1KSMBJ33	1000	28.2	31.4	34.7	1.0	45.7	22.0	5.0	**.64**
1KSMBJ36	1000	30.8	34.2	37.8	1.0	49.9	20.0	5.0	**.64**

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