

ELECTRICAL CHARACTERISTICS @ 5°C

TYPE NUMBER	REVERSE STANDOFF VOLTAGE V_{WM} Volts	MINIMUM BREAKDOWN VOLTAGE V_{BR} MIN @ $I_{(BR)}$ Volts	BREAKDOWN CURRENT $I_{(BR)}$ mA	MAXIMUM CLAMPING VOLTAGE @ I_{PP} V_C Volts	PEAK PULSE CURRENT (See Fig. 2) I_{PP} Amps	MAXIMUM STANDBY CURRENT @ V_{WM} I_b μA
SMAJ5.0	5.0	6.40	10	9.6	52	800
SMAJ5.0A	5.0	6.40	10	9.2	54.3	800
SMAJ6.0	6.0	6.67	10	11.4	43.9	800
SMAJ6.0A	6.0	6.67	10	10.3	48.5	800
SMAJ6.5	6.5	7.22	10	12.3	40.7	500
SMAJ6.5A	6.5	7.22	10	11.2	44.7	500
SMAJ7.0	7.0	7.78	10	13.3	37.8	200
SMAJ7.0A	7.0	7.78	10	12.0	41.7	200
SMAJ7.5	7.5	8.33	1	14.3	35.0	100
SMAJ7.5A	7.5	8.33	1	12.9	38.8	100
SMAJ8.0	8.0	8.89	1	15.0	33.3	50
SMAJ8.0A	8.0	8.89	1	13.6	36.7	50
SMAJ8.5	8.5	9.44	1	15.9	31.4	10
SMAJ8.5A	8.5	9.44	1	14.4	34.7	10
SMAJ9.0	9.0	10.0	1	16.9	29.5	5
SMAJ9.0A	9.0	10.0	1	15.4	32.6	5
SMAJ10	10	11.1	1	18.8	26.6	1
SMAJ10A	10	11.1	1	17.0	29.4	1
SMAJ11	11	12.2	1	20.1	24.9	1
SMAJ11A	11	12.2	1	18.2	27.4	1
SMAJ12	12	13.3	1	22.0	22.7	1
SMAJ12A	12	13.3	1	19.9	25.1	1
SMAJ13	13	14.4	1	23.8	21.0	1
SMAJ13A	13	14.4	1	21.5	23.2	1
SMAJ14	14	15.6	1	25.8	19.4	1
SMAJ14A	14	15.6	1	23.2	21.5	1
SMAJ15	15	16.7	1	26.9	18.8	1
SMAJ15A	15	16.7	1	24.4	20.6	1
SMAJ16	16	17.8	1	28.8	17.6	1
SMAJ16A	16	17.8	1	26.0	19.2	1
SMAJ17	17	18.9	1	30.5	16.4	1
SMAJ17A	17	18.9	1	27.6	18.1	1
SMAJ18	18	20.0	1	32.2	15.5	1
SMAJ18A	18	20.0	1	29.2	17.2	1
SMAJ20	20	22.2	1	35.8	13.9	1
SMAJ20A	20	22.2	1	32.4	15.4	1
SMAJ22	22	24.4	1	39.4	12.7	1
SMAJ22A	22	24.4	1	35.5	14.1	1
SMAJ24	24	26.7	1	43.0	11.6	1
SMAJ24A	24	26.7	1	38.9	12.8	1
SMAJ26	26	28.9	1	46.6	10.7	1
SMAJ26A	26	28.9	1	42.1	11.9	1
SMAJ28	28	31.1	1	50.0	9.9	1
SMAJ28A	28	31.1	1	45.4	11.0	1
SMAJ30	30	33.3	1	53.5	9.3	1
SMAJ30A	30	33.3	1	48.4	10.3	1
SMAJ33	33	36.7	1	59.0	8.5	1
SMAJ33A	33	36.7	1	53.3	9.4	1
SMAJ36	36	40.0	1	64.3	9.8	1
SMAJ36A	36	40.0	1	58.1	8.6	1
SMAJ40	40	44.4	1	71.4	7.0	1
SMAJ40A	40	44.4	1	64.5	7.8	1

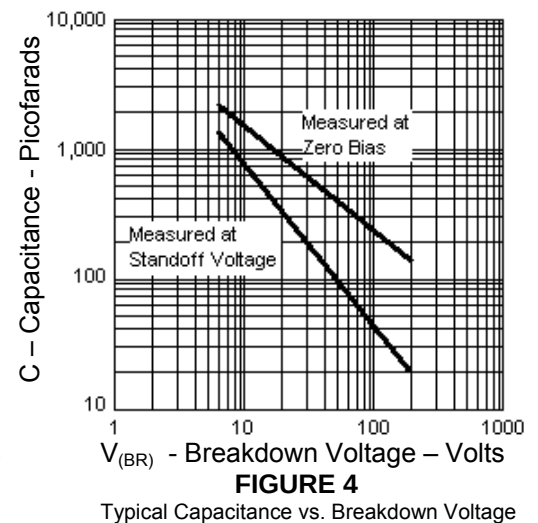
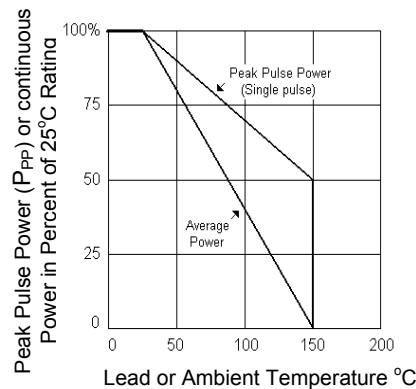
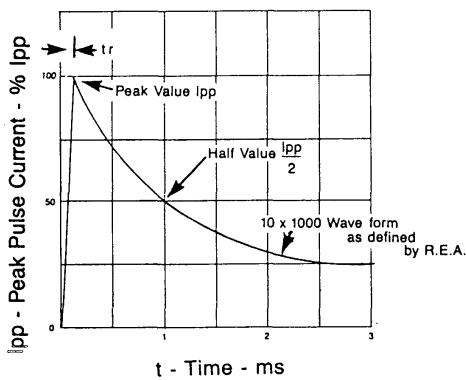
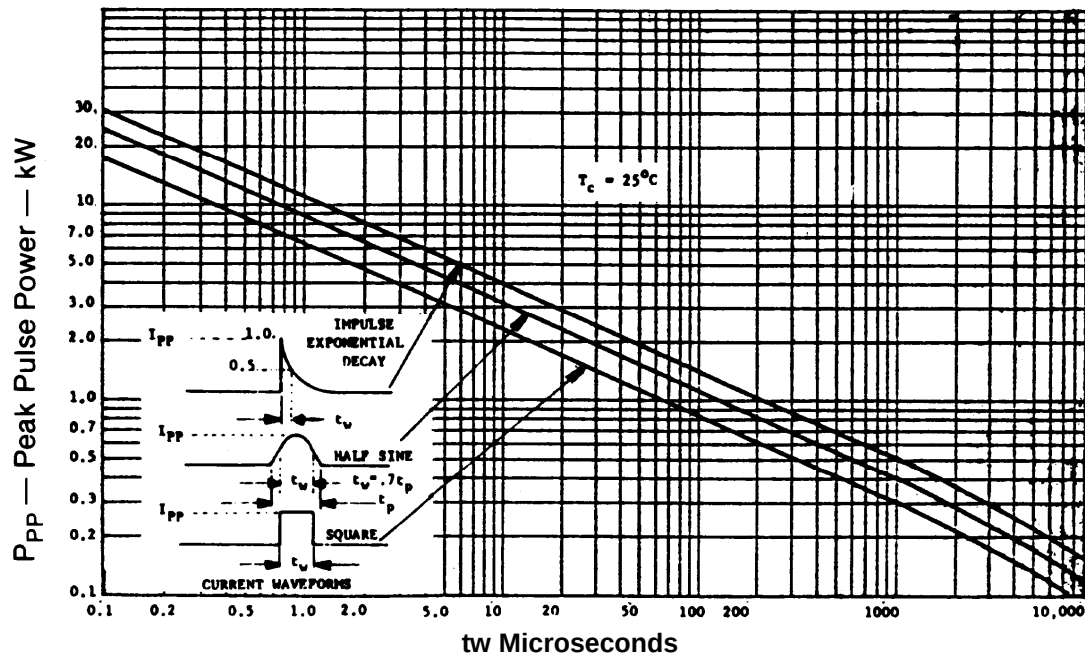
TYPE NUMBER	REVERSE STANDOFF VOLTAGE V_{WM} Volts	MINIMUM BREAKDOWN VOLTAGE V_{BR} MIN @ $I_{(BR)}$ Volts	BREAKDOWN CURRENT $I_{(BR)}$ mA	MAXIMUM CLAMPING VOLTAGE @ I_{PP} V_C Volts	PEAK PULSE CURRENT (See Fig. 2) I_{PP} Amps	MAXIMUM STANDBY CURRENT @ V_{WM} I_D μA
SMAJ43	43	47.8	1	76.7	6.5	1
SMAJ43A	43	47.8	1	69.4	7.2	1
SMAJ45	45	50.0	1	80.3	6.2	1
SMAJ45A	45	50.0	1	72.7	6.9	1
SMAJ48	48	53.3	1	85.5	5.8	1
SMAJ48A	48	53.3	1	77.4	6.5	1
SMAJ51	51	56.7	1	91.1	5.5	1
SMAJ51A	51	56.7	1	82.4	6.1	1
SMAJ54	54	60.0	1	96.3	5.2	1
SMAJ54A	54	60.0	1	87.1	5.7	1
SMAJ58	58	64.4	1	103.0	4.9	1
SMAJ58A	58	64.4	1	93.6	5.3	1
SMAJ60	60	66.7	1	107.0	4.7	1
SMAJ60A	60	66.7	1	96.8	5.2	1
SMAJ64	64	71.1	1	114.0	4.4	1
SMAJ64A	64	71.1	1	103.0	4.9	1
SMAJ70	70	77.8	1	125	4.0	1
SMAJ70A	70	77.8	1	113	4.4	1
SMAJ75	75	83.3	1	134	3.7	1
SMAJ75A	75	83.3	1	121	4.1	1
SMAJ78	78	86.7	1	139	3.6	1
SMAJ78A	78	86.7	1	126	4.0	1
SMAJ85	85	94.4	1	151	3.3	1
SMAJ85A	85	94.4	1	137	3.6	1
SMAJ90	90	100	1	160	3.1	1
SMAJ90A	90	100	1	146	3.4	1
SMAJ100	100	111	1	179	2.8	1
SMAJ100A	100	111	1	162	3.1	1
SMAJ110	110	122	1	196	2.6	1
SMAJ110A	110	122	1	177	2.8	1
SMAJ120	120	133	1	214	2.3	1
SMAJ120A	120	133	1	193	2.6	1
SMAJ130	130	144	1	231	2.2	1
SMAJ130A	130	144	1	209	2.4	1
SMAJ150	150	167	1	268	1.9	1
SMAJ150A	150	167	1	243	2.1	1
SMAJ160	160	178	1	287	1.7	1
SMAJ160A	160	178	1	259	1.9	1
SMAJ170	170	189	1	304	1.6	1
SMAJ170A	170	189	1	275	1.8	1

- For Bidirectional device types indicate a C or CA suffix after the part number. (i.e.: SMAJ170CA or SMAJ170C). Bidirectional capacitance is half that shown in figure 4 at zero volts.
- Microsemi Corp's SMA series (500 W) surface mountable packages are designed specifically for transient voltage suppression. The wide leads assure a large surface contact for good heat dissipation, and a low resistance path for surge current flow to ground. These high speed transient voltage suppressors can be used to effectively protect sensitive components such as integrated circuits and MOS devices.

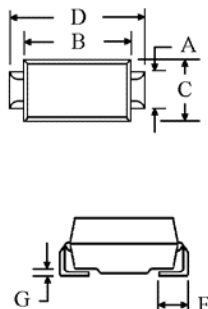
SYMBOLS & DEFINITIONS

Symbol	Definition	Symbol	Definition
V_{WM}	Working Peak (Standoff) Voltage	I_{PP}	Peak Pulse Current
P_{PP}	Peak Pulse Power	V_C	Clamping Voltage
$V_{(BR)}$	Breakdown Voltage	$I_{(BR)}$	Breakdown Current for $V_{(BR)}$
I_D	Standby Current		

GRAPHS



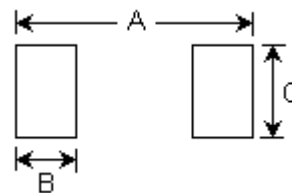
PACKAGE DIMENSIONS & PAD LAYOUT



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.067	.089	1.70	2.26	
B	.160	.180	3.99	4.50	
C	.100	.110	2.57	2.79	
D	.194	.216	4.93	5.48	
E	.078	.120	1.98	3.05	1
F	.030	.060	.76	1.52	
G	-	.02	-	.51	

NOTE 1: THIS MAXIMUM DIMENSION IS LARGER THAN THE STANDARD JEDEC CALL OUT. STANDARD JEDEC IS .105 INCHES OR 2.66 MM.

PAD LAYOUT



	INCHES	mm
A	.245	6.22
B	.075	1.90
C	.094	2.39