

SMAJ5.0(C)A - SMAJ200(C)A

400W SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Features

- 400W Peak Pulse Power Dissipation
- Glass Passivated Die Construction
- Unidirectional and Bidirectional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Lead Free Finish/RoHS Compliant (Note 1)
- Green Molding Compound (No Halogen and Antimony) (Note 2)

Mechanical Data

- Case: SMA
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead Free Plating (Matte Tin Finish).
 Solderable per MIL-STD-202, Method 208
- Polarity Indicator: Cathode Band (Note: Bi-directional devices have no polarity indicator.)
- Weight: 0.064 grams (approximate)





Top View

Bottom View

Ordering Information (Note 3)

Part Number	Case	Packaging
SMAJXXX(C)A-13-F	SMA	5000/Tape & Reel

^{*}x = Device Voltage, e.g., SMCJ170A-13-F. Example: SMAJ170A-13-F.

Notes:

- 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes
- 2. Product manufactured with Date Code 0924 (week 24, 2009) and newer are built with Green Molding Compound.
- 3. For packaging details, go to our website at http://www.diodes.com.

Marking Information



xx = Product type marking code
(See Electrical Characteristics Table)

III = Manufacturers' code marking

YWW = Date code marking

Y = Last digit of year (ex: 2 for 2002)

WW = Week code (01 to 53)

Maximum Ratings @TA = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation	D	400	W
(Non repetitive current pulse derated above $T_A = 25^{\circ}$ C) (Note 4)	P _{PK}	400	VV
Peak Forward Surge Current, 8.3ms Single Half Sine Wave	l==	40	Δ
Superimposed on Rated Load (Notes 4, 5 & 6)	IFSM	40	Α
Steady State Power Dissipation @ T _L = 75°C	$PM_{(AV)}$	1.0	W
Instantaneous Forward Voltage @ IPP = 35A	\/-	3.5	V
(Notes 4, 5, & 6)	V_{F}	5.5	V

Notes:

- 4. Valid provided that terminals are kept at ambient temperature.
- Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum.
- 6. Unidirectional units only.

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C

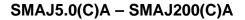


Electrical Characteristics @T_A = 25°C unless otherwise specified

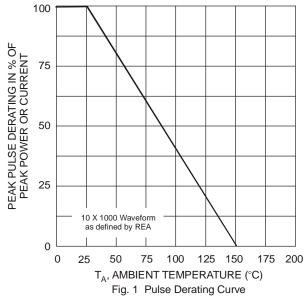
Add C For Bidirectional (Note 7) Voltage (Note 8) Voltage (Note 9) Voltage (Note		Davisanas	Brook	rd a sum	1	May Dayaraa		Max. Peak Pulse		
Selicitectional (Note 7) Virgin (V) Virgin (Virgin (Vir		Reverse Standoff				Max. Reverse Leakage @ V _{RWM}			Markin	g Code
SMAJ5.0(C)A 5.0 6.40 7.25 10 800 9.2 43.5 TE I SMAJ6.0(C)A 6.0 6.67 7.37 10 800 10.3 38.8 TG I SMAJ6.5(C)A 6.5 7.22 7.98 10 500 11.2 35.7 TK I SMAJ7.0(C)A 7.0 7.78 8.60 10 200 12.0 33.3 TM I SMAJ7.6(C)A 7.5 8.33 9.21 1.0 100 12.9 31.0 TP I SMAJ8.0(C)A 8.0 8.89 9.83 1.0 50 13.6 29.4 TR I SMAJ9.0(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT I SMAJ9.0(C)A 9.0 10.0 11.1 10.0 5.0 15.4 26.0 TV I SMAJ10(C)A 10 11.1 12.3 1.0 5.0		Voltage	V _{BR} @ I _T	(Note 8)	Current		voitage @ I _{pp}			
SMAJ6.0(C)A 6.0 6.67 7.37 10 800 10.3 38.8 TG F SMAJ6.5(C)A 6.5 7.22 7.98 10 500 11.2 35.7 TK H SMAJ7.5(C)A 7.0 7.78 8.60 10 200 12.0 33.3 TM H SMAJ8.0(C)A 7.5 8.33 9.21 1.0 100 12.9 31.0 TP H SMAJ8.0(C)A 8.0 8.89 9.83 1.0 50 13.6 29.4 TR H SMAJ8.9(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT T SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV H SMAJ9.0(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX H SMAJ10(C)A 11 12.2 13.5 1.0 5.0 17.0 23.5 TX </th <th>(Note 7)</th> <th>V_{RWM} (V)</th> <th>Min (V)</th> <th>Max (V)</th> <th>I_T (mA)</th> <th>I_R (μA)</th> <th>V_C (V)</th> <th>(A)</th> <th>BI-</th> <th>UNI-</th>	(Note 7)	V _{RWM} (V)	Min (V)	Max (V)	I _T (mA)	I _R (μA)	V _C (V)	(A)	BI-	UNI-
SMAJ6.5(C)A 6.5 7.22 7.98 10 500 11.2 35.7 TK If SMAJ7.0(C)A 7.0 7.78 8.60 10 200 12.0 33.3 TM If SMAJ7.5(C)A 7.5 8.33 9.21 1.0 100 12.9 31.0 TP If SMAJ8.0(C)A 8.0 8.89 9.83 1.0 50 13.6 29.4 TR If SMAJ8.5(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT If SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV If SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX If SMAJ13(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ If SMAJ13(C)A 13 14.4 15.9 1.0 5.0 <td>SMAJ5.0(C)A</td> <td>5.0</td> <td>6.40</td> <td>7.25</td> <td>10</td> <td>800</td> <td>9.2</td> <td>43.5</td> <td></td> <td>HE</td>	SMAJ5.0(C)A	5.0	6.40	7.25	10	800	9.2	43.5		HE
SMAJ7.0(C)A 7.0 7.78 8.60 10 200 12.0 33.3 TM F SMAJ7.5(C)A 7.5 8.33 9.21 1.0 100 12.9 31.0 TP F SMAJ8.0(C)A 8.0 8.89 9.83 1.0 50 13.6 29.4 TR F SMAJ8.5(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT F SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV F SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX F SMAJ11(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ F SMAJ12(C)A 12 13.3 14.7 1.0 5.0 21.5 18.6 UG UG SMAJ13(C)A 13 14.4 15.9 1.0 5.0	SMAJ6.0(C)A	6.0	6.67	7.37	10	800	10.3	38.8	TG	HG
SMAJ7.5(C)A 7.5 8.33 9.21 1.0 100 12.9 31.0 TP F SMAJ8.0(C)A 8.0 8.89 9.83 1.0 50 13.6 29.4 TR F SMAJ8.5(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT F SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV F SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX F SMAJ112(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ F SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG SMAJ15(C)A 15 16.7 18.5 1.0 5.0 23.2 17.2	SMAJ6.5(C)A	6.5	7.22	7.98	10	500	11.2	35.7	TK	HK
SMAJ8.0(C)A 8.0 8.89 9.83 1.0 50 13.6 29.4 TR F SMAJ8.5(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT IF SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV F SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX F SMAJ11(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ F SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG UG SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4	SMAJ7.0(C)A	7.0	7.78	8.60	10	200	12.0	33.3	TM	HM
SMAJ8.5(C)A 8.5 9.44 10.4 1.0 10 14.4 27.7 TT It SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV It SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX It SMAJ11(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ It SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG It SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM It SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP <td>SMAJ7.5(C)A</td> <td>7.5</td> <td>8.33</td> <td>9.21</td> <td>1.0</td> <td>100</td> <td>12.9</td> <td>31.0</td> <td>TP</td> <td>HP</td>	SMAJ7.5(C)A	7.5	8.33	9.21	1.0	100	12.9	31.0	TP	HP
SMAJ9.0(C)A 9.0 10.0 11.1 1.0 5.0 15.4 26.0 TV F SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX F SMAJ11(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ F SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG UG SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 23.2 17.2 UK SMAJ16(C)A 16 17.8 19.7 1.0 5.0 24.4 16.4 UM IM	SMAJ8.0(C)A	8.0	8.89	9.83	1.0	50	13.6	29.4	TR	HR
SMAJ10(C)A 10 11.1 12.3 1.0 5.0 17.0 23.5 TX E SMAJ11(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ E SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM I SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ18(C)A 18 20.0 22.1 1.0 5.0 27.6 14.5 UR SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ26(C)A <td>SMAJ8.5(C)A</td> <td>8.5</td> <td>9.44</td> <td>10.4</td> <td>1.0</td> <td>10</td> <td>14.4</td> <td>27.7</td> <td>TT</td> <td>HT</td>	SMAJ8.5(C)A	8.5	9.44	10.4	1.0	10	14.4	27.7	TT	HT
SMAJ11(C)A 11 12.2 13.5 1.0 5.0 18.2 22.0 TZ E SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM IM SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ24(C)A 24<	SMAJ9.0(C)A	9.0	10.0	11.1	1.0	5.0	15.4	26.0	TV	HV
SMAJ12(C)A 12 13.3 14.7 1.0 5.0 19.9 20.1 UE SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ26(C)A 24 26.7	SMAJ10(C)A	10	11.1	12.3	1.0	5.0	17.0	23.5	TX	HX
SMAJ13(C)A 13 14.4 15.9 1.0 5.0 21.5 18.6 UG SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ26(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 28 31.1	SMAJ11(C)A	11	12.2	13.5	1.0	5.0	18.2	22.0	TZ	HZ
SMAJ14(C)A 14 15.6 17.2 1.0 5.0 23.2 17.2 UK SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM I SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3 SMAJ30(C)A 30 <td>SMAJ12(C)A</td> <td>12</td> <td>13.3</td> <td>14.7</td> <td>1.0</td> <td>5.0</td> <td>19.9</td> <td>20.1</td> <td>UE</td> <td>IE</td>	SMAJ12(C)A	12	13.3	14.7	1.0	5.0	19.9	20.1	UE	IE
SMAJ15(C)A 15 16.7 18.5 1.0 5.0 24.4 16.4 UM I SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3 SMAJ30(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG 3 SMAJ33(C)A	SMAJ13(C)A	13	14.4	15.9	1.0	5.0	21.5	18.6	UG	IG
SMAJ16(C)A 16 17.8 19.7 1.0 5.0 26.0 15.3 UP SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3 SMAJ38(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG 3 SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM 3 SMAJ36(C)A	SMAJ14(C)A	14	15.6	17.2	1.0	5.0	23.2	17.2	UK	IK
SMAJ17(C)A 17 18.9 20.9 1.0 5.0 27.6 14.5 UR SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3 SMAJ38(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG 3 SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK 3 SMAJ36(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM SMAJ36(C)A	SMAJ15(C)A	15	16.7	18.5	1.0	5.0	24.4	16.4	UM	IM
SMAJ18(C)A 18 20.0 22.1 1.0 5.0 29.2 13.7 UT SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3.0 SMAJ28(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG 3.0 SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK 3.0 SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM 3.0 SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP 3.0	SMAJ16(C)A	16	17.8	19.7	1.0	5.0	26.0	15.3	UP	IP
SMAJ20(C)A 20 22.2 24.5 1.0 5.0 32.4 12.3 UV SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3.0 SMAJ28(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG 3.0 SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK 3.0 SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM 3.0 SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP 3.0 SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR	SMAJ17(C)A	17	18.9	20.9	1.0	5.0	27.6	14.5	UR	IR
SMAJ22(C)A 22 24.4 26.9 1.0 5.0 35.5 11.2 UX SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3.0 SMAJ28(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG 3.0 SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK 3.0 SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM 3.0 SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP 3.0 SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR 3.0	SMAJ18(C)A	18	20.0	22.1	1.0	5.0	29.2	13.7	UT	IT
SMAJ24(C)A 24 26.7 29.5 1.0 5.0 38.9 10.3 UZ SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE 3.0 3.1 34.4 1.0 5.0 45.4 8.8 VG 3.0 33.3 36.8 1.0 5.0 48.4 8.3 VK 3.0 33.3 36.8 1.0 5.0 48.4 8.3 VK 3.0 3.3 36.7 40.6 1.0 5.0 53.3 7.5 VM 3.0 3.3 36.7 40.6 1.0 5.0 53.3 7.5 VM 3.0 3.0 36.4 40.0 44.2 1.0 5.0 58.1 6.9 VP 3.0 5.0 58.1 6.9 VP 3.0 5.0 58.1 6.2 VR 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	SMAJ20(C)A	20	22.2	24.5	1.0	5.0	32.4	12.3	UV	IV
SMAJ26(C)A 26 28.9 31.9 1.0 5.0 42.1 9.5 VE SMAJ28(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR	SMAJ22(C)A	22	24.4	26.9	1.0	5.0	35.5	11.2	UX	IX
SMAJ28(C)A 28 31.1 34.4 1.0 5.0 45.4 8.8 VG SMAJ30(C)A SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR 3.0 <td>SMAJ24(C)A</td> <td>24</td> <td>26.7</td> <td>29.5</td> <td>1.0</td> <td>5.0</td> <td>38.9</td> <td>10.3</td> <td>UZ</td> <td>ΙZ</td>	SMAJ24(C)A	24	26.7	29.5	1.0	5.0	38.9	10.3	UZ	ΙZ
SMAJ30(C)A 30 33.3 36.8 1.0 5.0 48.4 8.3 VK SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR	SMAJ26(C)A	26	28.9	31.9	1.0	5.0	42.1	9.5	VE	JE
SMAJ33(C)A 33 36.7 40.6 1.0 5.0 53.3 7.5 VM SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR	SMAJ28(C)A	28	31.1	34.4	1.0	5.0	45.4	8.8	VG	JG
SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR	SMAJ30(C)A	30	33.3	36.8	1.0	5.0	48.4	8.3	VK	JK
SMAJ36(C)A 36 40.0 44.2 1.0 5.0 58.1 6.9 VP X SMAJ40(C)A 40 44.4 49.1 1.0 5.0 64.5 6.2 VR X	SMAJ33(C)A	33	36.7	40.6	1.0	5.0	53.3	7.5	VM	JM
	SMAJ36(C)A	36	40.0	44.2	1.0	5.0	58.1	6.9	VP	JP
	SMAJ40(C)A	40	44.4	49.1				6.2	VR	JR
SMAJ43(C)A 43 47.8 52.8 1.0 5.0 69.4 5.7 VT		43	47.8	52.8	1.0	5.0	69.4	5.7	VT	JT
SMAJ45(C)A 45 50.0 55.3 1.0 5.0 72.7 5.5 VV	SMAJ45(C)A	45	50.0	55.3	1.0	5.0	72.7	5.5	VV	JV
	SMAJ48(C)A	48	53.3	58.9	1.0		77.4	5.2	VX	JX
			56.7	62.7	1.0	5.0			VZ	JZ
		+							WE	RE
		58								RG
	, ,								WK	RK
		64	71.1	78.6	1.0		103		WM	RM
		70		86.0	1.0	5.0	113	3.5	WP	RP
										RR
										RT
	, ,	+								RV
	, ,	+								RX
										RZ
										SE
										SG
										SK
										SM
	SMAJ150(C)A	160	178	197	1.0	ວ.ບ	259	1.5	XР	52
SMAJ200(C)A 200 224 248 1.0 1.0 324 1.2 YT 5		160 170	178 189	197 209	1.0	5.0	259 275	1.5	XP	SP SR

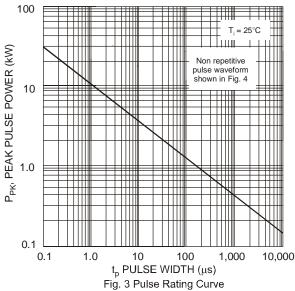
Notes:

- 7. Suffix C denotes Bi-directional device.
- 8. V_{BR} measured with I_T current pulse = 300 μ s 9. For Bidirectional devices having V_{RWM} of 10V and under, the I_R is doubled.









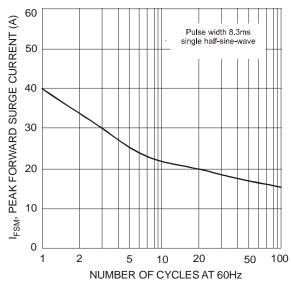
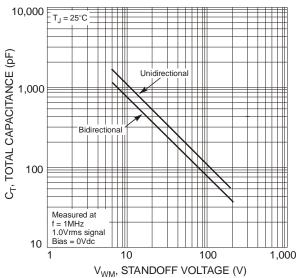
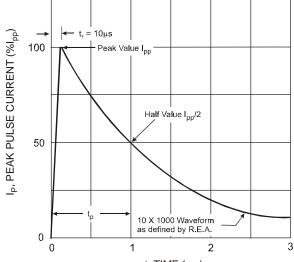


Fig. 5 Maximum Non-Repetitive Surge Current



V_{WM}, STANDOFF VOLTAGE (V) Fig. 2 Typical Total Capacitance



t, TIME (ms) Fig. 4 Pulse Waveform

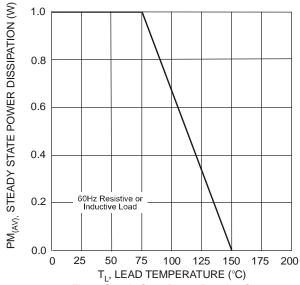
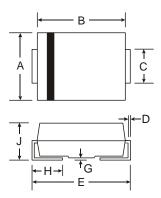


Fig. 6 Steady State Power Derating Curve

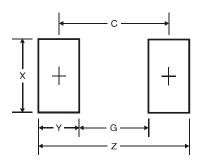


Package Outline Dimensions



SMA					
Dim	Min	Max			
Α	2.29	2.92			
В	4.00	4.60			
С	1.27	1.63			
D	0.15	0.31			
Е	4.80	5.59			
G	0.05	0.20			
Н	0.76	1.52			
J	2.01	2.30			
All Dimensions in mm					

Suggested Pad Layout



SMA Dimensions	Value (in mm)
Z	6.5
G	1.5
Х	1.7
Y	2.5
С	4.0



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