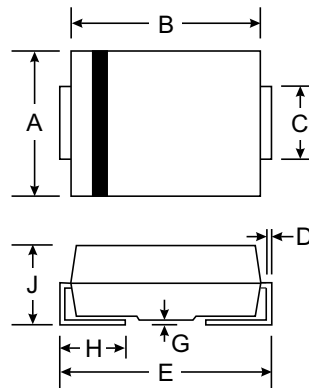


Features

- 400W Peak Pulse Power Dissipation
- 5.0V - 170V Standoff Voltages
- Glass Passivated Die Construction
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: SMA, Transfer Molded Epoxy
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity Indicator: Cathode Band
(Note: Bi-directional devices have no polarity indicator.)
- Marking: Date Code and Marking Code
See Page 3
- Weight: 0.064 grams (approx.)



SMA		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

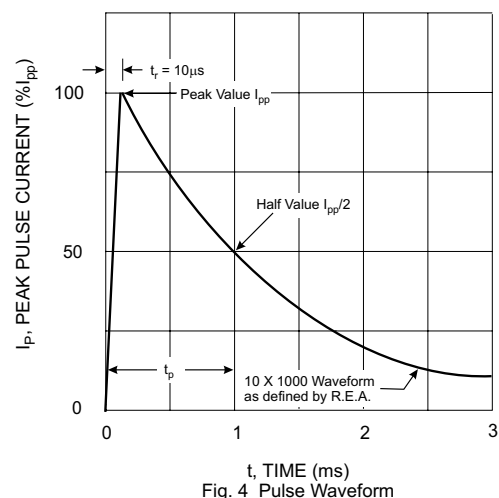
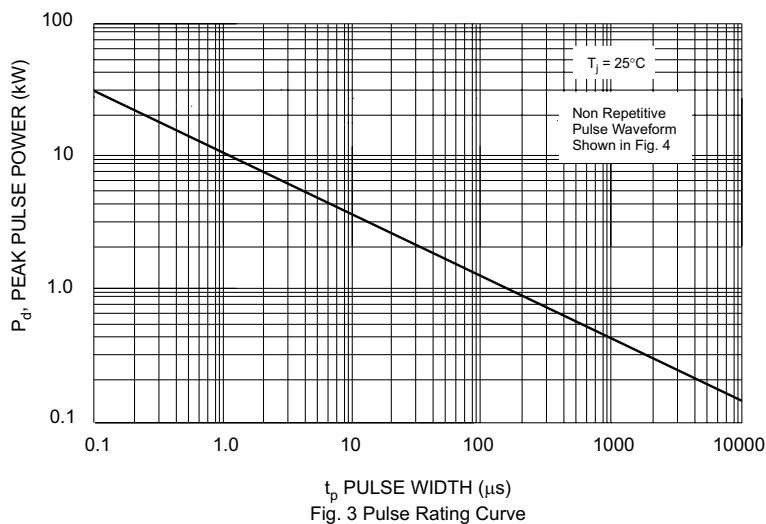
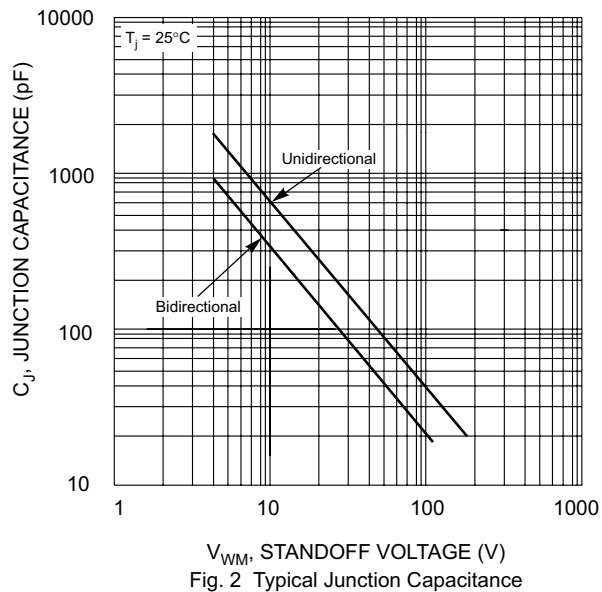
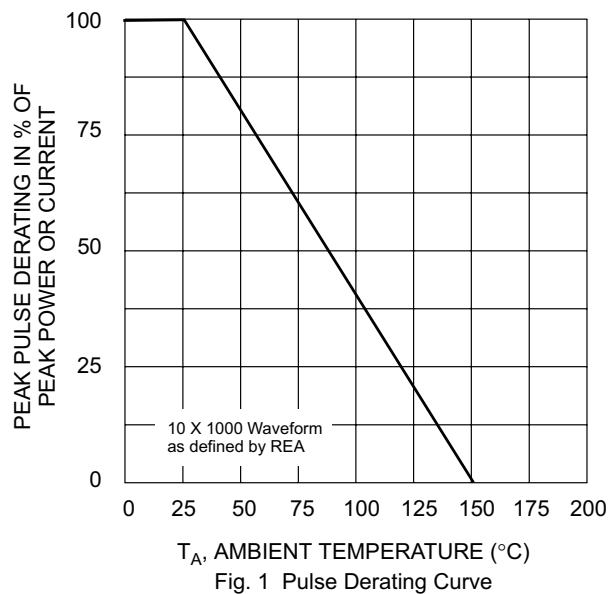
Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation (Non repetitive current pulse derated above $T_A = 25^\circ\text{C}$) (Note 1)	P_{PK}	400	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) (Notes 1, 2, & 3)	I_{FSM}	40	A
Instantaneous Forward Voltage @ $I_{PP} = 35\text{A}$ (Notes 1, 2, & 3)	V_F	3.5	V
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

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

Part Number Add C For Bi-Directional (Note 4)	Reverse Standoff Voltage	Breakdown Voltage V _{BR} @ I _T (Note 5)		Test Current	Max. Reverse Leakage @ V _{RWM} (Note 6)	Max. Clamping Voltage @ I _{pp}	Max. Peak Pulse Current I _{pp}	Marking Code	
	V _{RWM} (V)	Min (V)	Max (V)	I _T (mA)	I _R (μA)	V _C (V)	(A)	BI-	UNI-
SMAJ5.0(C)A	5.0	6.40	7.25	10	800	9.2	43.5	TE	HE
SMAJ6.0(C)A	6.0	6.67	7.37	10	800	10.3	38.8	TG	HG
SMAJ6.5(C)A	6.5	7.22	7.98	10	500	11.2	35.7	TK	HK
SMAJ7.0(C)A	7.0	7.78	8.60	10	200	12.0	33.3	TM	HM
SMAJ7.5(C)A	7.5	8.33	9.21	1.0	100	12.9	31.0	TP	HP
SMAJ8.0(C)A	8.0	8.89	9.83	1.0	50	13.6	29.4	TR	HR
SMAJ8.5(C)A	8.5	9.44	10.4	1.0	10	14.4	27.7	TT	HT
SMAJ9.0(C)A	9.0	10.0	11.1	1.0	5.0	15.4	26.0	TV	HV
SMAJ10(C)A	10	11.1	12.3	1.0	5.0	17.0	23.5	TX	HX
SMAJ11(C)A	11	12.2	13.5	1.0	5.0	18.2	22.0	TZ	HZ
SMAJ12(C)A	12	13.3	14.7	1.0	5.0	19.9	20.1	UE	IE
SMAJ13(C)A	13	14.4	15.9	1.0	5.0	21.5	18.6	UG	IG
SMAJ14(C)A	14	15.6	17.2	1.0	5.0	23.2	17.2	UK	IK
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	IP
SMAJ17(C)A	17	18.9	20.9	1.0	5.0	27.6	14.5	UR	IR
SMAJ18(C)A	18	20.0	22.1	1.0	5.0	29.2	13.7	UT	IT
SMAJ20(C)A	20	22.2	24.5	1.0	5.0	32.4	12.3	UV	IV
SMAJ22(C)A	22	24.4	26.9	1.0	5.0	35.5	11.2	UX	IX
SMAJ24(C)A	24	26.7	29.5	1.0	5.0	38.9	10.3	UZ	IZ
SMAJ26(C)A	26	28.9	31.9	1.0	5.0	42.1	9.5	VE	JE
SMAJ28(C)A	28	31.1	34.4	1.0	5.0	45.4	8.8	VG	JG
SMAJ30(C)A	30	33.3	36.8	1.0	5.0	48.4	8.3	VK	JK
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	1.0	5.0	64.5	6.2	VR	JR
SMAJ43(C)A	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	JV
SMAJ48(C)A	48	53.3	58.9	1.0	5.0	77.4	5.2	VX	JX
SMAJ51(C)A	51	56.7	62.7	1.0	5.0	82.4	4.9	VZ	JZ
SMAJ54(C)A	54	60.0	66.3	1.0	5.0	87.1	4.6	WE	RE
SMAJ58(C)A	58	64.4	71.2	1.0	5.0	93.6	4.3	WG	RG
SMAJ60(C)A	60	66.7	73.7	1.0	5.0	96.8	4.1	WK	RK
SMAJ64(C)A	64	71.1	78.6	1.0	5.0	103	3.9	WM	RM
SMAJ70(C)A	70	77.8	86.0	1.0	5.0	113	3.5	WP	RP
SMAJ75(C)A	75	83.3	92.1	1.0	5.0	121	3.3	WR	RR
SMAJ78(C)A	78	86.7	95.8	1.0	5.0	126	2.2	WT	RT
SMAJ85(C)A	85	94.4	104	1.0	5.0	137	2.9	WV	RV
SMAJ90(C)A	90	100	111	1.0	5.0	146	2.7	WX	RX
SMAJ100(C)A	100	111	123	1.0	5.0	162	2.5	WZ	RZ
SMAJ110(C)A	110	122	135	1.0	5.0	177	2.3	XE	SE
SMAJ120(C)A	120	133	147	1.0	5.0	193	2.0	XG	SG
SMAJ130(C)A	130	144	159	1.0	5.0	209	1.9	XK	SK
SMAJ150(C)A	150	167	185	1.0	5.0	243	1.6	XM	SM
SMAJ160(C)A	160	178	197	1.0	5.0	259	1.5	XP	SP
SMAJ170(C)A	170	189	209	1.0	5.0	275	1.4	XR	SR

Notes: 4. Suffix C denotes Bi-directional device.
5. V_{BR} measured with I_T current pulse = 300μs
6. For Bi-Directional devices having V_{RWM} of 10V and under, the I_R is doubled.

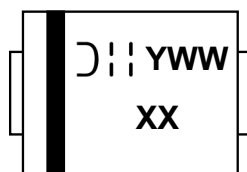


Ordering Information (Note 4)

Device	Packaging	Shipping
SMAJXXX(C)A-13	SMA	5000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Marking Information



XX = Product type marking code (See Page 2)
 D:: = Manufacturers' code marking
 YWW = Date code marking
 Y = Last digit of year ex: 2 for 2002
 WW = Week code 01 to 52