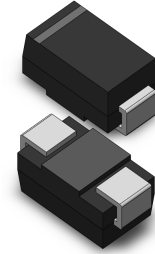


VOLTAGE RANGE: 5.0 - 440 V
POWER: 500Watts

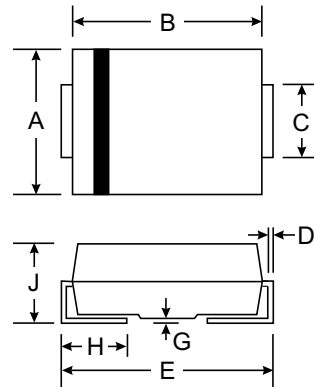
Features

- 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 2



SMA(DO-214AC)		
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°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak pulse power dissipation with a 10/1000 μs waveform ⁽¹⁾⁽²⁾ (Fig. 1)	P _{PPM}	500	W
Peak pulse current with a 10/1000 μs waveform ⁽¹⁾	I _{PPM}	See next table	A
Peak forward surge current 8.3 ms single half sine-wave uni-directional only ⁽²⁾	I _{FSM}	40	A
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150	°C

Notes:

(1) Non-repetitive current pulse, per Fig. 3 and derated above T_A = 25 °C per Fig. 2.

(2) Mounted on 0.2 x 0.2" (5.0 x 5.0 mm) copper pads to each terminal

TYPE		Marking		Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @ I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}
(Uni)	(Bi)	(Uni)	(Bi)	V _{RWM} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMA5J5.0	SMA5J5.0C	5HD	5TD	5.0	6.40	7.55	10.0	9.6	41.7	800.0
SMA5J5.0A	SMA5J5.0CA	5HE	5TE	5.0	6.40	7.25	10.0	9.2	43.5	800.0
SMA5J6.0	SMA5J6.0C	5HF	5TF	6.0	6.67	8.45	10.0	11.4	35.1	800.0
SMA5J6.0A	SMA5J6.0CA	5HG	5TG	6.0	6.67	7.67	10.0	10.3	38.8	800.0
SMA5J6.5	SMA5J6.5C	5HH	5TH	6.5	7.22	9.14	10.0	12.3	32.5	500.0
SMA5J6.5A	SMA5J6.5CA	5HK	5TK	6.5	7.22	8.30	10.0	11.2	35.7	500.0
SMA5J7.0	SMA5J7.0C	5HL	5TL	7.0	7.78	9.86	10.0	13.3	30.1	200.0
SMA5J7.0A	SMA5J7.0CA	5HM	5TM	7.0	7.78	8.95	10.0	12.0	33.3	200.0
SMA5J7.5	SMA5J7.5C	5HN	5TN	7.5	8.33	10.67	1.0	14.3	28.0	100.0
SMA5J7.5A	SMA5J7.5CA	5HP	5TP	7.5	8.33	9.58	1.0	12.9	31.0	100.0
SMA5J8.0	SMA5J8.0C	5HQ	5TQ	8.0	8.89	11.3	1.0	15.0	26.7	50.0
SMA5J8.0A	SMA5J8.0CA	5HR	5TR	8.0	8.89	10.23	1.0	13.6	29.4	50.0
SMA5J8.5	SMA5J8.5C	5HS	5TS	8.5	9.44	11.92	1.0	15.9	25.2	20.0
SMA5J8.5A	SMA5J8.5CA	5HT	5TT	8.5	9.44	10.82	1.0	14.4	27.8	20.0
SMA5J9.0	SMA5J9.0C	5HU	5TU	9.0	10.0	12.6	1.0	16.9	23.7	10.0
SMA5J9.0A	SMA5J9.0CA	5HV	5TV	9.0	10.0	11.5	1.0	15.4	26.0	10.0
SMA5J10	SMA5J10C	5HW	5TW	10	11.1	14.1	1.0	18.8	21.3	5.0
SMA5J10A	SMA5J10CA	5HX	5TX	10	11.1	12.8	1.0	17.0	23.5	5.0
SMA5J11	SMA5J11C	5HY	5TY	11	12.2	15.4	1.0	20.1	19.9	5.0
SMA5J11A	SMA5J11CA	5HZ	5TZ	11	12.2	14.0	1.0	18.2	22.0	5.0
SMA5J12	SMA5J12C	5ID	5UD	12	13.3	16.9	1.0	22.0	18.2	5.0
SMA5J12A	SMA5J12CA	5IE	5UE	12	13.3	15.3	1.0	19.9	20.1	5.0
SMA5J13	SMA5J13C	5IF	5UF	13	14.4	18.2	1.0	23.8	16.8	5.0
SMA5J13A	SMA5J13CA	5IG	5UG	13	14.4	16.5	1.0	21.5	18.6	5.0
SMA5J14	SMA5J14C	5IH	5UH	14	15.6	19.8	1.0	25.8	15.5	5.0
SMA5J14A	SMA5J14CA	5IK	5UK	14	15.6	17.9	1.0	23.2	17.2	5.0
SMA5J15	SMA5J15C	5IL	5UL	15	16.7	21.1	1.0	26.9	14.9	5.0
SMA5J15A	SMA5J15CA	5IM	5UM	15	16.7	19.2	1.0	24.4	16.4	5.0
SMA5J16	SMA5J16C	5IN	5UN	16	17.8	22.6	1.0	28.8	13.9	5.0
SMA5J16A	SMA5J16CA	5IP	5UP	16	17.8	20.5	1.0	26.0	15.4	5.0
SMA5J17	SMA5J17C	5IQ	5UQ	17	18.9	23.9	1.0	30.5	13.1	5.0
SMA5J17A	SMA5J17CA	5IR	5UR	17	18.9	21.7	1.0	27.6	14.5	5.0
SMA5J18	SMA5J18C	5IS	5US	18	20.0	25.3	1.0	32.2	12.4	5.0
SMA5J18A	SMA5J18CA	5IT	5UT	18	20.0	23.3	1.0	29.2	13.7	5.0
SMA5J20	SMA5J20C	5IU	5UU	20	22.2	28.1	1.0	35.8	11.2	5.0
SMA5J20A	SMA5J20CA	5IV	5UV	20	22.2	25.5	1.0	32.4	12.3	5.0
SMA5J22	SMA5J22C	5IW	5UW	22	24.4	30.9	1.0	39.4	10.2	5.0

TYPE		Marking		Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @ I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}
(Uni)	(Bi)	(Uni)	(Bi)	V _{RWM} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (uA)
SMA5J22A	SMA5J22CA	5IX	5UX	22	24.4	28.0	1.0	35.5	11.3	5.0
SMA5J24	SMA5J24C	5IY	5UY	24	26.7	33.8	1.0	43.0	9.3	5.0
SMA5J24A	SMA5J24CA	5IZ	5UZ	24	26.7	30.7	1.0	38.9	10.3	5.0
SMA5J26	SMA5J26C	5JD	5VD	26	28.9	36.6	1.0	46.6	8.6	5.0
SMA5J26A	SMA5J26CA	5JE	5VE	26	28.9	33.2	1.0	42.1	9.5	5.0
SMA5J28	SMA5J28C	5JF	5VF	28	31.1	39.4	1.0	50.0	8.0	5.0
SMA5J28A	SMA5J28CA	5JG	5VG	28	31.1	35.8	1.0	45.4	8.8	5.0
SMA5J30	SMA5J30C	5JH	5VH	30	33.3	42.2	1.0	53.5	7.5	5.0
SMA5J30A	SMA5J30CA	5JK	5VK	30	33.3	38.3	1.0	48.4	8.3	5.0
SMA5J33	SMA5J33C	5JL	5VL	33	36.7	46.5	1.0	59.0	6.8	5.0
SMA5J33A	SMA5J33CA	5JM	5VM	33	36.7	42.2	1.0	53.3	7.5	5.0
SMA5J36	SMA5J36C	5JN	5VN	36	40.0	50.7	1.0	64.3	6.2	5.0
SMA5J36A	SMA5J36CA	5JP	5VP	36	40.0	46.0	1.0	58.1	6.9	5.0
SMA5J40	SMA5J40C	5JQ	5VQ	40	44.4	56.3	1.0	71.4	5.6	5.0
SMA5J40A	SMA5J40CA	5JR	5VR	40	44.4	51.1	1.0	64.5	6.2	5.0
SMA5J43	SMA5J43C	5JS	5VS	43	47.7	60.5	1.0	76.7	5.2	5.0
SMA5J43A	SMA5J43CA	5JT	5VT	43	47.8	54.9	1.0	69.4	5.8	5.0
SMA5J45	SMA5J45C	5JU	5VU	45	50.0	63.3	1.0	80.3	5.0	5.0
SMA5J45A	SMA5J45CA	5JV	5VV	45	50.0	57.5	1.0	72.7	5.5	5.0
SMA5J48	SMA5J48C	5JW	5VW	48	53.3	67.5	1.0	85.5	4.7	5.0
SMA5J48A	SMA5J48CA	5JX	5VX	48	53.3	61.3	1.0	77.4	5.2	5.0
SMA5J51	SMA5J51C	5JY	5VY	51	56.7	71.8	1.0	91.1	4.4	5.0
SMA5J51A	SMA5J51CA	5JZ	5VZ	51	56.7	65.2	1.0	82.4	4.9	5.0
SMA5J54	SMA5J54C	5RD	5WD	54	60.0	76.0	1.0	96.3	4.2	5.0
SMA5J54A	SMA5J54CA	5RE	5WE	54	60.0	69.0	1.0	87.1	4.6	5.0
SMA5J58	SMA5J58C	5RF	5WF	58	64.4	81.6	1.0	103	3.9	5.0
SMA5J58A	SMA5J58CA	5RG	5WG	58	64.4	74.1	1.0	93.6	4.3	5.0
SMA5J60	SMA5J60C	5RH	5WH	60	66.7	84.5	1.0	107	3.7	5.0
SMA5J60A	SMA5J60CA	5RK	5WK	60	66.7	76.7	1.0	96.8	4.1	5.0
SMA5J64	SMA5J64C	5RL	5WL	64	71.1	90.1	1.0	114	3.5	5.0
SMA5J64A	SMA5J64CA	5RM	5WM	64	71.1	81.8	1.0	103	3.9	5.0
SMA5J70	SMA5J70C	5RN	5WN	70	77.8	98.6	1.0	125	3.2	5.0
SMA5J70A	SMA5J70CA	5RP	5WP	70	77.8	89.5	1.0	113	3.5	5.0
SMA5J75	SMA5J75C	5RQ	5WQ	75	83.0	105.7	1.0	134	3.0	5.0
SMA5J75A	SMA5J75CA	5RR	5WR	75	83.0	95.8	1.0	121	3.3	5.0
SMA5J78	SMA5J78C	5RS	5WS	78	86.0	109.8	1.0	139	2.9	5.0
SMA5J78A	SMA5J78CA	5RT	5WT	78	86.0	99.7	1.0	126	3.2	5.0
SMA5J85	SMA5J85C	5RU	5WU	85	94.0	119.2	1.0	151	2.6	5.0
SMA5J85A	SMA5J85CA	5RV	5WV	85	94.0	108.2	1.0	137	2.9	5.0



TYPE		Marking		Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @ I _T	Test Current	Maximum Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage @V _{RWM}
(Uni)	(Bi)	(Uni)	(Bi)	V _{RWM} (V)	V _{BR MIN} (V)	V _{BR MAX} (V)	I _T (mA)	V _C (V)	I _{PP} (A)	I _R (μ A)
SMA5J90	SMA5J90C	5RW	5WW	90	100	126.5	1.0	160	2.5	5.0
SMA5J90A	SMA5J90CA	5RX	5WX	90	100	115.5	1.0	146	2.7	5.0
SMA5J100	SMA5J100C	5RY	5WY	100	111	141.0	1.0	179	2.2	5.0
SMA5J100A	SMA5J100CA	5RZ	5WZ	100	111	128.0	1.0	162	2.5	5.0
SMA5J110	SMA5J110C	5SD	5XD	110	122	154.5	1.0	196	2.0	5.0
SMA5J110A	SMA5J110CA	5SE	5XE	110	122	140.5	1.0	177	2.3	5.0
SMA5J120	SMA5J120C	5SF	5XF	120	133	169.0	1.0	214	1.9	5.0
SMA5J120A	SMA5J120CA	5SG	5XG	120	133	153.0	1.0	193	2.1	5.0
SMA5J130	SMA5J130C	5SH	5XH	130	144	182.5	1.0	231	1.7	5.0
SMA5J130A	SMA5J130CA	5SK	5XK	130	144	165.5	1.0	209	1.9	5.0
SMA5J150	SMA5J150C	5SL	5XL	150	167	211.5	1.0	268	1.5	5.0
SMA5J150A	SMA5J150CA	5SM	5XM	150	167	192.5	1.0	243	1.6	5.0
SMA5J160	SMA5J160C	5SN	5XN	160	178	226.0	1.0	287	1.4	5.0
SMA5J160A	SMA5J160CA	5SP	5XP	160	178	205.0	1.0	259	1.5	5.0
SMA5J170	SMA5J170C	5SQ	5XQ	170	189	239.5	1.0	304	1.3	5.0
SMA5J170A	SMA5J170CA	5SR	5XR	170	189	217.5	1.0	275	1.5	5.0
SMA5J180	SMA5J180C	5SS	5XS	180	200	253.8	1.0	321	1.2	5.0
SMA5J180A	SMA5J180CA	5ST	5XT	180	200	230.4	1.0	290	1.4	5.0
SMA5J190	SMA5J190C	5SU	5XU	190	211	267.9	1.0	339	1.2	5.0
SMA5J190A	SMA5J190CA	5SV	5XV	190	211	243.2	1.0	306	1.3	5.0
SMA5J200	SMA5J200C	5SW	5XW	200	222	282.0	1.0	356	1.1	5.0
SMA5J200A	SMA5J200CA	5SX	5XX	200	222	256.0	1.0	322	1.2	5.0
SMA5J210	SMA5J210C	5SY	5XY	210	233	296.1	1.0	375	1.1	5.0
SMA5J210A	SMA5J210CA	5SZ	5XZ	210	233	268.8	1.0	339	1.2	5.0
SMA5J220	SMA5J220C	5ZD	5YD	220	244	310.2	1.0	392	1.0	5.0
SMA5J220A	SMA5J220CA	5ZE	5YE	220	244	281.6	1.0	355	1.1	5.0
SMA5J250	SMA5J250C	5ZF	5YF	250	278	342.5	1.0	447	0.9	5.0
SMA5J250A	SMA5J250CA	5ZG	5YG	250	278	309.0	1.0	403	1.0	5.0
SMA5J300	SMA5J300C	5ZH	5YH	300	333	411.0	1.0	535	0.7	5.0
SMA5J300A	SMA5J300CA	5ZK	5YK	300	333	371.0	1.0	484	0.8	5.0
SMA5J350	SMA5J350C	5ZL	5YL	350	389	479.5	1.0	624	0.6	5.0
SMA5J350A	SMA5J350CA	5ZM	5YM	350	389	432.0	1.0	565	0.7	5.0
SMA5J400	SMA5J400C	5ZN	5YN	400	444	548.0	1.0	687	0.6	5.0
SMA5J400A	SMA5J400CA	5ZP	5YP	400	444	494.0	1.0	645	0.6	5.0
SMA5J440	SMA5J440C	5ZQ	5YQ	440	489	602.8	1.0	786	0.5	5.0
SMA5J440A	SMA5J440CA	5ZR	5YR	440	489	543.0	1.0	710	0.6	5.0