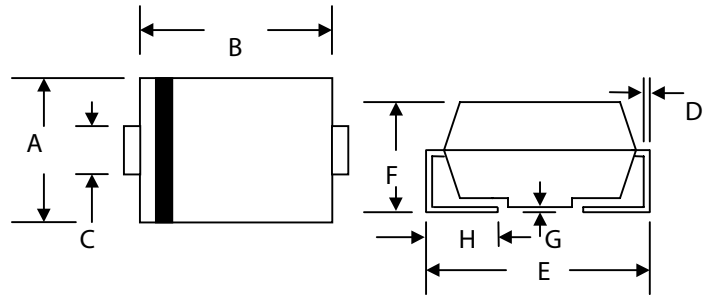


Features

- Glass Passivated Die Construction
- 1500W Peak Pulse Power Dissipation
- 5.0V – 170V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-0



Mechanical Data

- Case: JEDEC DO-214AB Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking:
Unidirectional – Device Code and Cathode Band
Bidirectional – Device Code Only
- Weight: 0.21 grams (approx.)

SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.25
D	0.152	0.305
E	7.75	8.13
F	2.00	2.62
G	0.051	0.203
H	0.76	1.27
All Dimensions in mm		

"C" Suffix Designates Bi-directional Devices
 "A" Suffix Designates 5% Tolerance Devices
 No S suffix Designates 10% Tolerance Devices

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

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation 10/1000 μs Waveform (Note 1, 2) Figure 3	PPPM	1500 Minimum	W
Peak Pulse Current on 10/1000 μs Waveform (Note 1) Figure 4	IPPM	See Table 1	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) (Note 2, 3)	IFSM	100	A
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150	$^\circ\text{C}$

- Note: 1. Non-repetitive current pulse, per Figure 4 and derated above $T_A = 25^\circ\text{C}$ per Figure 1.
 2. Mounted on 8.0mm² copper pads to each terminal.
 3. Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minutes maximum.

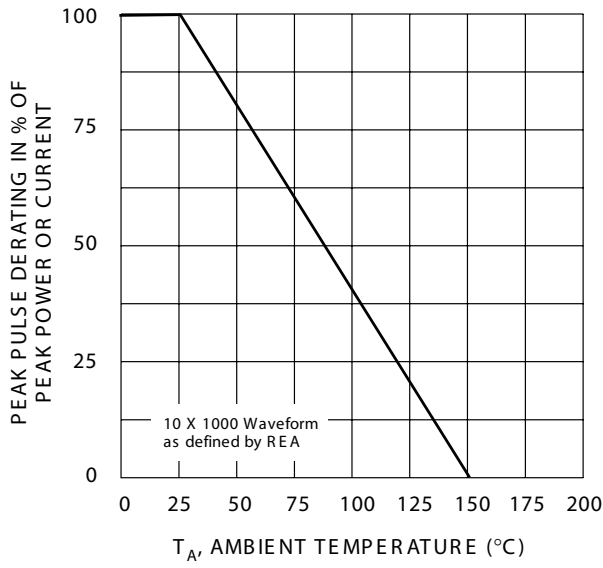


Fig. 1 Pulse Derating Curve

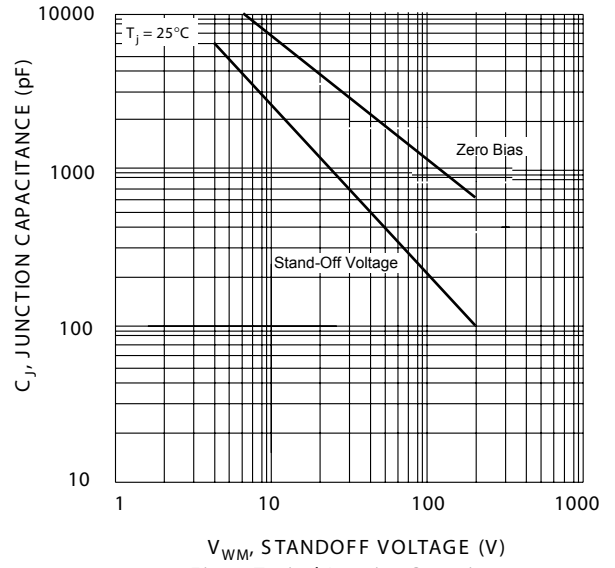


Fig. 2 Typical Junction Capacitance

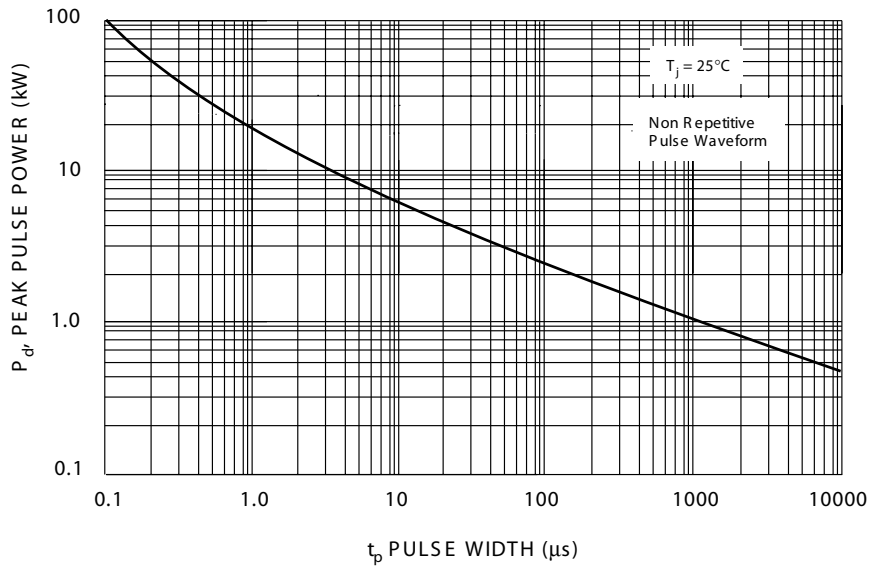


Fig. 3 Pulse Rating Curve

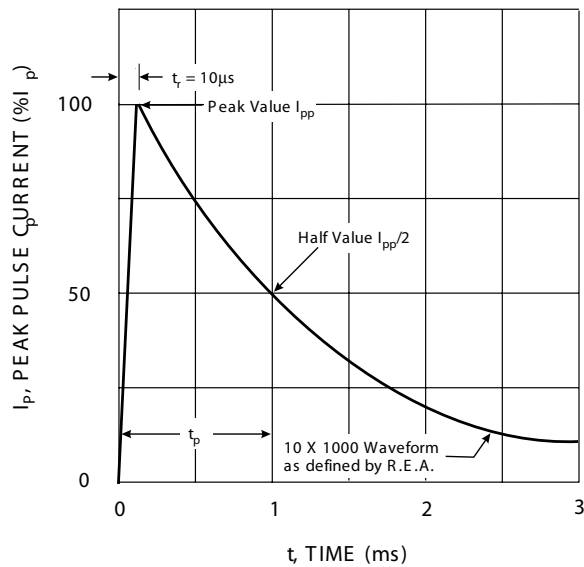


Fig. 4 Pulse Waveform

UNI-DIRECTIONAL 1500 WATT SURFACE MOUNT TVS

UNI-DIRECTIONAL PART NO.	DEVICE MARKING CODE	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN. @IT	BREAKDOWN VOLTAGE VBR (V) MAX. @IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @VRWM IR (uA)
1.5SMCJ5.0	GDD	5.00	6.40	7.55	10	9.6	156.2	1000
1.5SMCJ5.0A	GDE	5.00	6.40	7.25	10	9.2	163.0	1000
1.5SMCJ6.0	GDF	6.00	6.67	8.45	10	11.4	131.6	1000
1.5SMCJ6.0A	GDG	6.00	6.67	7.67	10	10.3	145.6	1000
1.5SMCJ6.5	GDH	6.50	7.22	9.14	10	12.3	122.0	500
1.5SMCJ6.5A	GDK	6.50	7.22	8.30	10	11.2	133.9	500
1.5SMCJ7.0	GDL	7.00	7.78	9.86	10	13.3	112.8	200
1.5SMCJ7.0A	GDM	7.00	7.78	8.95	10	12.0	125.0	200
1.5SMCJ7.5	GDN	7.50	8.33	10.67	1	14.3	104.9	100
1.5SMCJ7.5A	GDP	7.50	8.33	9.58	1	12.9	116.3	100
1.5SMCJ8.0	GDQ	8.00	8.99	11.30	1	15.0	100.0	50
1.5SMCJ8.0A	GDR	8.00	8.99	10.23	1	13.6	110.3	50
1.5SMCJ8.5	GDS	8.50	9.44	11.92	1	15.9	94.3	25
1.5SMCJ8.5A	GDT	8.50	9.44	10.82	1	14.4	104.2	25
1.5SMCJ9.0	GDU	9.00	10.00	12.60	1	16.9	88.7	10
1.5SMCJ9.0A	GDV	9.00	10.00	11.50	1	15.4	97.4	10
1.5SMCJ10	GDW	10.00	11.10	14.10	1	18.8	79.8	5
1.5SMCJ10A	GDX	10.00	11.10	12.80	1	17.0	88.2	5
1.5SMCJ11	GDY	11.00	12.20	15.40	1	20.1	74.6	5
1.5SMCJ11A	GDZ	11.00	12.20	14.00	1	18.2	82.4	5
1.5SMCJ12	GED	12.00	13.30	16.90	1	22.0	68.2	5
1.5SMCJ12A	GEE	12.00	13.30	15.30	1	19.9	75.3	5
1.5SMCJ13	GEF	13.00	14.40	18.20	1	23.8	63.0	5
1.5SMCJ13A	GEG	13.00	14.40	16.50	1	21.5	69.7	5
1.5SMCJ14	GEH	14.00	15.60	19.80	1	25.8	58.1	5
1.5SMCJ14A	GEK	14.00	15.60	17.90	1	23.2	64.7	5
1.5SMCJ15	GEL	15.00	16.70	21.10	1	26.9	55.8	5
1.5SMCJ15A	GEM	15.00	16.70	19.20	1	24.4	61.5	5
1.5SMCJ16	GEN	16.00	17.80	22.60	1	28.8	52.1	5
1.5SMCJ16A	GEP	16.00	17.80	20.50	1	26.0	57.7	5
1.5SMCJ17	GEQ	17.00	18.90	23.90	1	30.5	49.2	5
1.5SMCJ17A	GER	17.00	18.90	21.70	1	27.6	53.3	5
1.5SMCJ18	GES	18.00	20.00	25.30	1	32.2	46.6	5
1.5SMCJ18A	GET	18.00	20.00	23.30	1	29.2	51.4	5
1.5SMCJ20	GEU	20.00	22.20	28.10	1	35.8	41.9	5
1.5SMCJ20A	GEV	20.00	22.20	25.50	1	32.4	46.3	5
1.5SMCJ22	GEW	22.00	24.40	30.90	1	39.4	38.1	5
1.5SMCJ22A	GEX	22.00	24.40	28.00	1	35.5	42.2	5
1.5SMCJ24	GEY	24.00	26.70	33.80	1	43.0	34.9	5
1.5SMCJ24A	GEZ	24.00	26.70	30.70	1	38.9	38.6	5
1.5SMCJ26	GFD	26.00	28.90	36.60	1	46.6	32.2	5
1.5SMCJ26A	GFE	26.00	28.90	33.20	1	42.1	35.6	5
1.5SMCJ28	GFF	28.00	31.10	39.40	1	50.0	30.0	5
1.5SMCJ28A	GFG	28.00	31.10	35.80	1	45.4	33.0	5
1.5SMCJ30	GFH	30.00	33.30	42.20	1	53.5	28.0	5
1.5SMCJ30A	GFK	30.00	33.30	38.30	1	48.4	31.0	5
1.5SMCJ33	GFL	33.00	36.70	46.50	1	59.0	25.2	5
1.5SMCJ33A	GFM	33.00	36.70	42.20	1	53.3	28.1	5
1.5SMCJ36	GFN	36.00	40.00	50.70	1	64.3	23.3	5
1.5SMCJ36A	GFP	36.00	40.00	46.00	1	58.1	25.8	5
1.5SMCJ40	GFQ	40.00	44.40	56.30	1	71.4	21.0	5
1.5SMCJ40A	GFR	40.00	44.40	51.10	1	64.5	23.2	5
1.5SMCJ43	GFS	43.00	47.80	60.50	1	76.6	19.6	5
1.5SMCJ43A	GFT	43.00	47.80	54.90	1	69.4	21.6	5
1.5SMCJ45	GFU	45.00	50.00	63.30	1	80.3	18.7	5
1.5SMCJ45A	GFV	45.00	50.00	57.50	1	72.7	20.6	5
1.5SMCJ48	GFW	48.00	53.30	67.50	1	85.5	17.5	5
1.5SMCJ48A	GFY	48.00	53.30	61.30	1	77.4	19.4	5
1.5SMCJ51	GFY	51.00	56.70	71.80	1	91.1	18.5	5
1.5SMCJ51A	GFZ	51.00	56.70	65.20	1	82.4	18.2	5
1.5SMCJ54	GGD	54.00	60.00	76.00	1	96.3	15.6	5
1.5SMCJ54A	GGE	54.00	60.00	69.00	1	87.1	17.2	5
1.5SMCJ58	GGF	58.00	64.40	81.60	1	103.0	14.6	5
1.5SMCJ58A	GGG	58.00	64.40	74.10	1	93.6	16.0	5
1.5SMCJ60	GGH	60.00	66.70	84.50	1	107.0	14.0	5
1.5SMCJ60A	G GK	60.00	66.70	76.70	1	96.8	15.5	5
1.5SMCJ64	GGL	64.00	71.10	90.10	1	114.0	13.2	5
1.5SMCJ64A	GGM	64.00	71.10	81.80	1	103.0	14.6	5
1.5SMCJ70	GGN	70.00	77.80	98.60	1	125.0	12.0	5
1.5SMCJ70A	GGP	70.00	77.80	89.50	1	113.0	13.3	5
1.5SMCJ75	GGQ	75.00	83.30	105.70	1	134.0	11.2	5
1.5SMCJ75A	GGR	75.00	83.30	95.80	1	121.0	12.4	5
1.5SMCJ78	GGS	78.00	86.70	109.80	1	139.0	10.8	5
1.5SMCJ78A	GGT	78.00	86.70	99.70	1	126.0	11.4	5
1.5SMCJ85	GGU	85.00	94.40	119.20	1	151.0	9.9	5
1.5SMCJ85A	GGV	85.00	94.40	108.20	1	137.0	10.4	5
1.5SMCJ90	GGW	90.00	100.00	126.50	1	160.0	9.4	5
1.5SMCJ90A	GGX	90.00	100.00	115.50	1	146.0	10.3	5
1.5SMCJ100	GGY	100.00	111.00	141.00	1	179.0	8.4	5
1.5SMCJ100A	GGZ	100.00	111.00	128.00	1	162.0	9.3	5
1.5SMCJ110	GHD	110.00	122.00	154.50	1	196.0	7.7	5
1.5SMCJ110A	GHE	110.00	122.00	140.50	1	177.0	8.4	5
1.5SMCJ120	GHF	120.00	133.00	169.00	1	214.0	7.0	5
1.5SMCJ120A	GHG	120.00	133.00	153.00	1	193.0	7.9	5
1.5SMCJ130	GHH	130.00	144.00	182.50	1	231.0	6.5	5
1.5SMCJ130A	GHK	130.00	144.00	165.50	1	209.0	7.2	5
1.5SMCJ150	GHL	150.00	167.00	211.50	1	269.0	5.6	5
1.5SMCJ150A	GHM	150.00	167.00	192.50	1	243.0	6.2	5
1.5SMCJ160	GHN	160.00	178.00	226.00	1	287.0	5.2	5
1.5SMCJ160A	GHP	160.00	178.00	205.00	1	259.0	5.8	5
1.5SMCJ170	GHQ	170.00	189.00	239.50	1	304.0	4.9	5
1.5SMCJ170A	GHR	170.00	189.00	217.50	1	275.0	5.5	5

