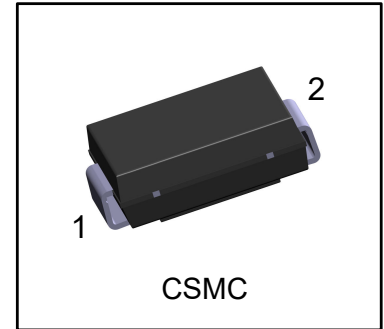


S-CSMDJ***CA

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS
VOLTAGE 6.8 TO 250 V, 3000 W Peak Pulse Power

1. FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Excellent clamping capability
- Repetition Rate (duty cycle): 0.01%
- Fast response time: typically less than 1.0ps
- Typical IR less than 1uA above 10V
- High temperature soldering guaranteed: 260°C/10 seconds,
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Weight: 0.28g



2. MECHANICAL DATA

Case: JEDEC DO-214AB (CSMC)

Terminals: Plated leads, solderable per MIL-STD-202, Method 208

Polarity: Without Color band denoted cathode

Mounting Position: Any

3. MAXIMUM RATINGS (Ta = 25°C)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	VALUE	UNITS
Peak Power Dissipation at $T_A=25^\circ\text{C}$, $T_P=1\text{ms}$ (Note 1)	3000	W
Steady State Power Dissipation at $T_L=75^\circ\text{C}$ (Note 2)	6.5	W
Operating Temperature Range	-55 to +150	°C
Storage Temperature Range	-55 to +150	°C
ESD Contact / Air (per IEC 61000-4-2)	±30 / ±30	kV

NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above $T_A=25^\circ\text{C}$ per Fig.
2. Mounted on 0.31 x 0.31" (8.0 x 8.0mm) copper pads to each terminal.

4. ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Bidirectional- Directional Part Number	Device marking	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)
S-CSMDJ5.0CA	SMDJ5.0CA	5	6.4	7	10	9.2	326.1	800
S-CSMDJ6.0CA	SMDJ6.0CA	6	6.67	7.37	10	10.3	291.3	800
S-CSMDJ6.5CA	SMDJ6.5CA	6.5	7.22	7.98	10	11.2	267.9	500
S-CSMDJ7.0CA	SMDJ7.0CA	7	7.78	8.6	10	12	250	200
S-CSMDJ7.5CA	SMDJ7.5CA	7.5	8.33	9.21	1	12.9	232.6	100
S-CSMDJ8.0CA	SMDJ8.0CA	8	8.89	9.83	1	13.6	220.6	50
S-CSMDJ8.5CA	SMDJ8.5CA	8.5	9.44	10.4	1	14.4	208.3	20
S-CSMDJ9.0CA	SMDJ9.0CA	9	10	11.1	1	15.4	194.8	10
S-CSMDJ10CA	SMDJ10CA	10	11.1	12.3	1	17	176.5	1
S-CSMDJ11CA	SMDJ11CA	11	12.2	13.5	1	18.2	164.8	1
S-CSMDJ12CA	SMDJ12CA	12	13.3	14.7	1	19.9	150.8	1
S-CSMDJ13CA	SMDJ13CA	13	14.4	15.9	1	21.5	139.5	1
S-CSMDJ14CA	SMDJ14CA	14	15.6	17.2	1	23.2	129.3	1
S-CSMDJ15CA	SMDJ15CA	15	16.7	18.5	1	24.4	123	1
S-CSMDJ16CA	SMDJ16CA	16	17.8	19.7	1	26	115.4	1
S-CSMDJ17CA	SMDJ17CA	17	18.9	20.9	1	27.6	108.7	1
S-CSMDJ18CA	SMDJ18CA	18	20	22.1	1	29.2	102.7	1
S-CSMDJ20CA	SMDJ20CA	20	22.2	24.5	1	32.4	92.6	1
S-CSMDJ22CA	SMDJ22CA	22	24.4	26.9	1	35.5	84.5	1
S-CSMDJ24CA	SMDJ24CA	24	26.7	29.5	1	38.9	77.1	1
S-CSMDJ26CA	SMDJ26CA	26	28.9	31.9	1	42.1	71.3	1
S-CSMDJ28CA	SMDJ28CA	28	31.1	34.4	1	45.4	66.1	1
S-CSMDJ30CA	SMDJ30CA	30	33.3	36.8	1	48.4	62	1
S-CSMDJ33CA	SMDJ33CA	33	36.7	40.6	1	53.3	56.3	1
S-CSMDJ36CA	SMDJ36CA	36	40	44.2	1	58.1	51.6	1
S-CSMDJ40CA	SMDJ40CA	40	44.4	49.1	1	64.5	46.5	1
S-CSMDJ43CA	SMDJ43CA	43	47.8	52.8	1	69.4	43.2	1
S-CSMDJ45CA	SMDJ45CA	45	50	55.3	1	72.7	41.3	1
S-CSMDJ48CA	SMDJ48CA	48	53.3	58.9	1	77.4	38.8	1
S-CSMDJ51CA	SMDJ51CA	51	56.7	62.7	1	82.4	36.4	1
S-CSMDJ54CA	SMDJ54CA	54	60	66.3	1	87.1	34.4	1
S-CSMDJ58CA	SMDJ58CA	58	64.4	71.2	1	93.6	32.1	1
S-CSMDJ60CA	SMDJ60CA	60	66.7	73.7	1	96.8	31	1
S-CSMDJ64CA	SMDJ64CA	64	71.1	78.6	1	103	29.1	1
S-CSMDJ70CA	SMDJ70CA	70	77.8	86	1	113	26.5	1
S-CSMDJ75CA	SMDJ75CA	75	83.3	92.1	1	121	24.8	1
S-CSMDJ78CA	SMDJ78CA	78	86.7	95.8	1	126	23.8	1
S-CSMDJ85CA	SMDJ85CA	85	94.4	104	1	137	219	1
S-CSMDJ90CA	SMDJ90CA	90	100	111	1	146	20.5	1
S-CSMDJ100CA	SMDJ100CA	100	111	123	1	162	18.5	1
S-CSMDJ110CA	SMDJ110CA	110	122	135	1	177	16.9	1
S-CSMDJ120CA	SMDJ120CA	120	133	147	1	193	15.5	1
S-CSMDJ130CA	SMDJ130CA	130	144	159	1	209	14.4	1
S-CSMDJ150CA	SMDJ150CA	150	167	185	1	243	12.3	1
S-CSMDJ160CA	SMDJ160CA	160	178	197	1	259	11.6	1
S-CSMDJ170CA	SMDJ170CA	170	189	209	1	275	10.9	1
S-CSMDJ180CA	SMDJ180CA	180	198	221	1	291	10.3	1
S-CSMDJ190CA	SMDJ190CA	190	209	233	1	307	9.8	1
S-CSMDJ200CA	SMDJ200CA	200	220	246	1	324	9.3	1
S-CSMDJ220CA	SMDJ220CA	220	246	272	1	356	8.4	1
S-CSMDJ250CA	SMDJ250CA	250	279	309	1	405	7.4	1

5. ELECTRICAL CHARACTERISTICS CURVES

Fig. 1-Peak Pulse Power Rating Curve

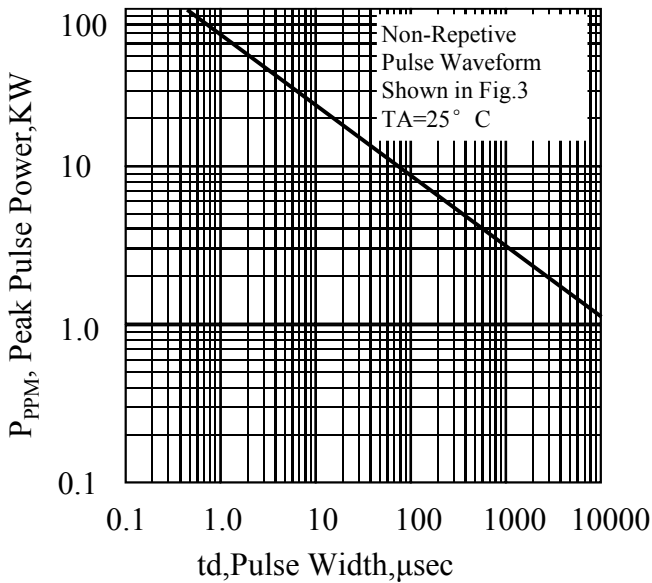


Fig. 2-Pulse Derating Curve

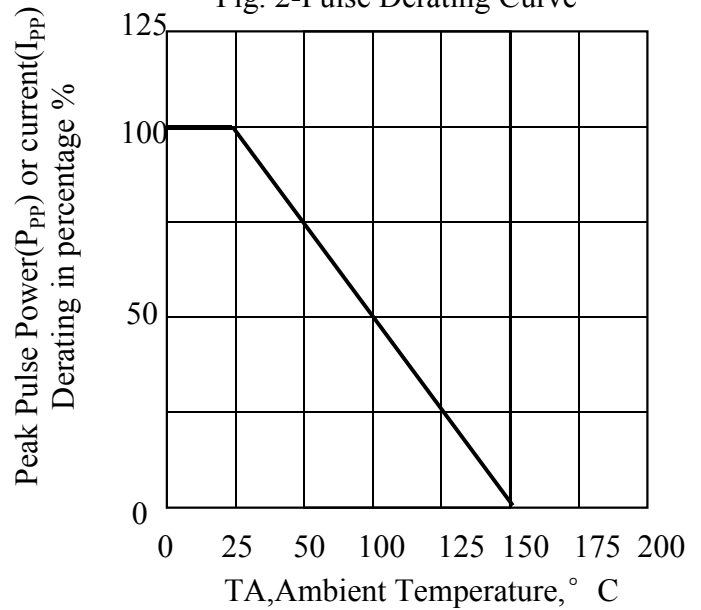


Fig. 3-Pulse Waveform

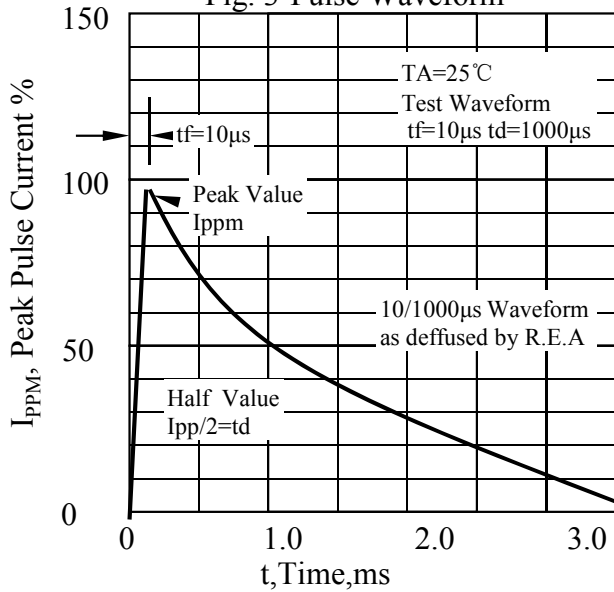
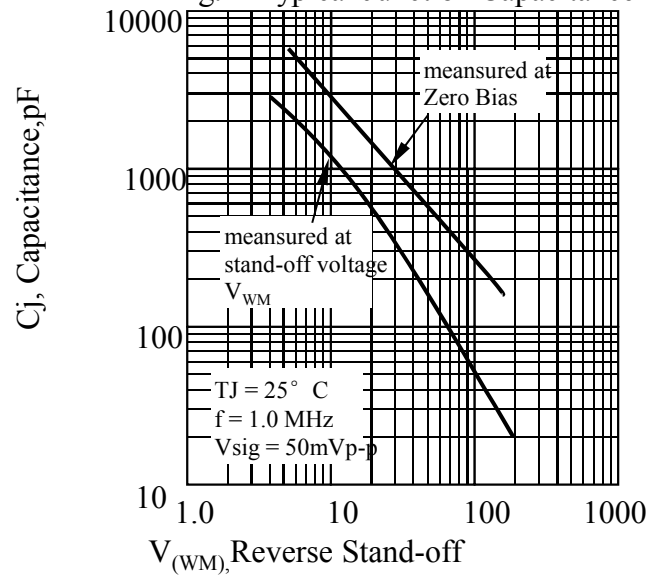
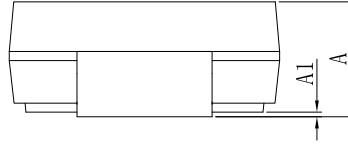
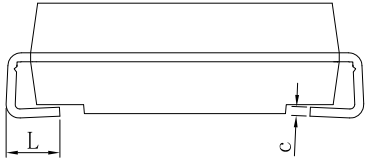


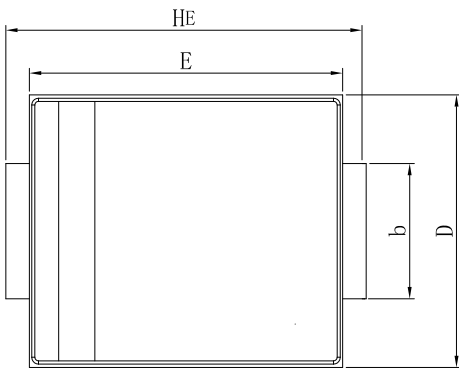
Fig. 4-Typical Junction Capacitance



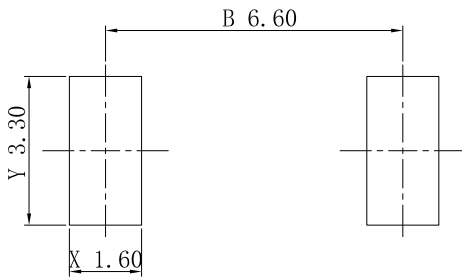
6. OUTLINE AND DIMENSIONS



CSMC			
DIM	MIN	TYP	MAX
A	2.25	2.45	2.65
A1	0.05	0.10	0.20
b	2.80	3.00	3.20
c	0.10	0.20	0.30
D	5.85	6.05	6.25
E	6.65	6.95	7.11
HE	7.70	8.00	8.30
L	0.76	1.20	1.52
All Dimensions in mm			



7. SOLDERING FOOTPRINT



DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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