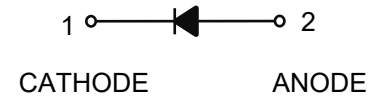
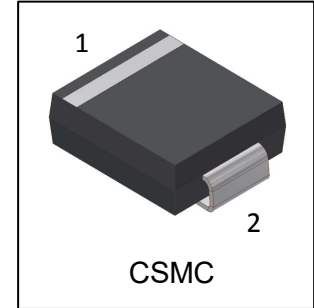


S-CSMDJ***A

Surface Mount Transient Voltage Suppressor
Voltage 5.0 to 250 V, 3000 W Peak Pulse Power

1. FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- 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%
- High temperature soldering guaranteed:260°C/10 seconds
- We declare that the material of product complies 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: Epoxy, Molded

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

Polarity: Color band denotes cathode end.

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	Limits	Unit
Peak Power Dissipation at TA =25°C, TP =1ms(Note 1)	PPPM	3000	W
Steady State Power Dissipation at TL =75°C(Note 2)	PM(AV)	6.5	W
Peak Forward Surge Current,8.3ms Single Half Sine-Wave Superimposed on Rated Load, (JEDEC Method)(Note 3)	IFSM	300	A
Operating junction temperature range	TJ	-55 ~ +150	°C
Storage temperature range	TSTG	-55 ~ +175	°C

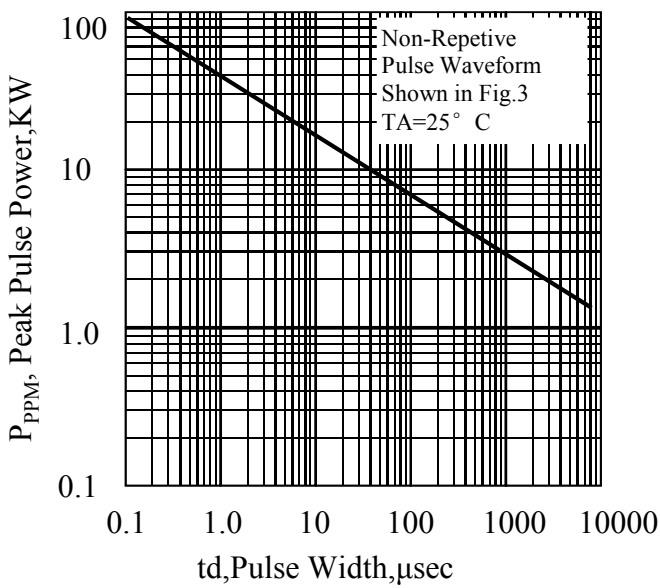
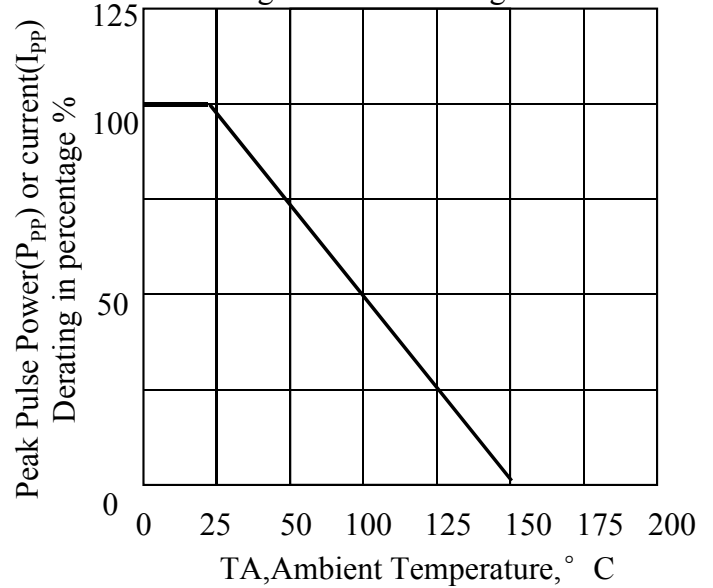
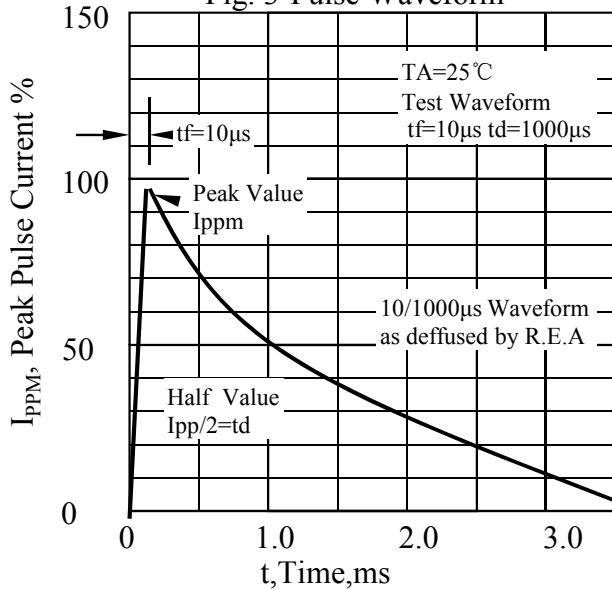
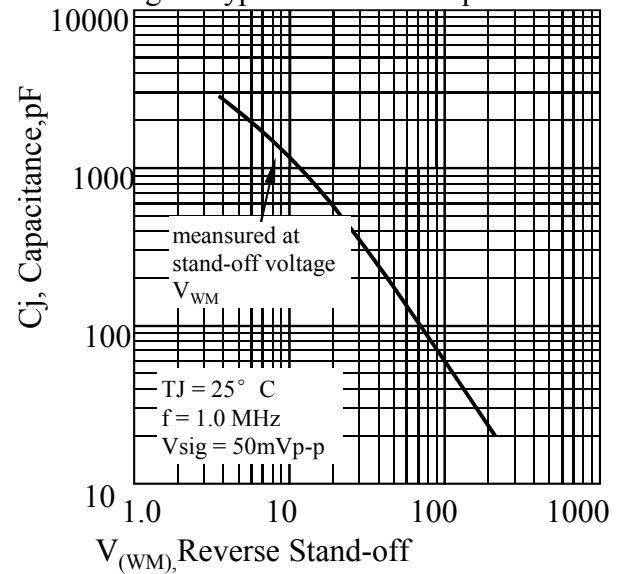
1. Non-repetitive current pulse, per Fig. 3 and derated above TA=25°C per Fig. 2.

2. 30.0mm×25.0mm×1.6mm(FR4)

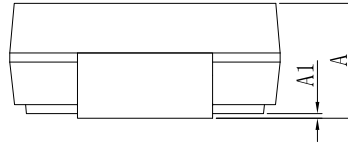
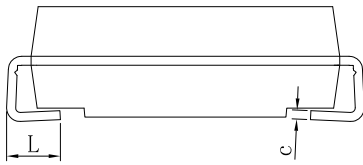
3. 8.3ms single half sine-wave, duty cycle= 4 pulses per minu

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

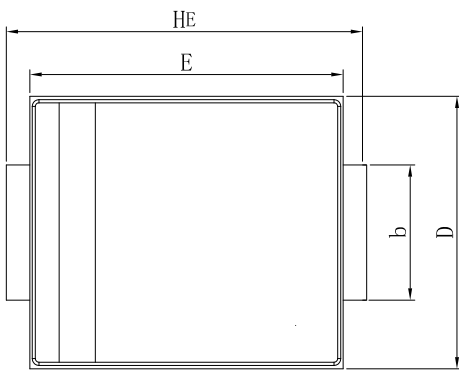
Uni-Directional Part Number	Device Marking	Reverse Stand-off Voltage VRWM (V)	Breakdown Voltage VBR (V) Min. @IT	Breakdown Voltage VBR (V) Max. @IT	Test Current IT (mA)	Maximum Clamping Voltage @IPP VC (V)	Peak Pulse Current Ipp (A)	Reverse Leakage @VRWM IR (uA)
S-CSMDJ5.0A	SMDJ5.0A	5	6.4	7	10	9.2	326.1	800
S-CSMDJ6.0A	SMDJ6.0A	6	6.67	7.37	10	10.3	291.3	800
S-CSMDJ6.5A	SMDJ6.5A	6.5	7.22	7.98	10	11.2	267.9	500
S-CSMDJ7.0A	SMDJ7.0A	7	7.78	8.6	10	12	250	200
S-CSMDJ7.5A	SMDJ7.5A	7.5	8.33	9.21	1	12.9	232.6	100
S-CSMDJ8.0A	SMDJ8.0A	8	8.89	9.83	1	13.6	220.6	50
S-CSMDJ8.5A	SMDJ8.5A	8.5	9.44	10.4	1	14.4	208.3	20
S-CSMDJ9.0A	SMDJ9.0A	9	10	11.1	1	15.4	194.8	10
S-CSMDJ10A	SMDJ10A	10	11.1	12.3	1	17	176.5	5
S-CSMDJ11A	SMDJ11A	11	12.2	13.5	1	18.2	164.8	2
S-CSMDJ12A	SMDJ12A	12	13.3	14.7	1	19.9	150.8	1
S-CSMDJ13A	SMDJ13A	13	14.4	15.9	1	21.5	139.5	1
S-CSMDJ14A	SMDJ14A	14	15.6	17.2	1	23.2	129.3	1
S-CSMDJ15A	SMDJ15A	15	16.7	18.5	1	24.4	123	1
S-CSMDJ16A	SMDJ16A	16	17.8	19.7	1	26	115.4	1
S-CSMDJ17A	SMDJ17A	17	18.9	20.9	1	27.6	108.7	1
S-CSMDJ18A	SMDJ18A	18	20	22.1	1	29.2	102.7	1
S-CSMDJ20A	SMDJ20A	20	22.2	24.5	1	32.4	92.6	1
S-CSMDJ22A	SMDJ22A	22	24.4	26.9	1	35.5	84.5	1
S-CSMDJ24A	SMDJ24A	24	26.7	29.5	1	38.9	77.1	1
S-CSMDJ26A	SMDJ26A	26	28.9	31.9	1	42.1	71.3	1
S-CSMDJ28A	SMDJ28A	28	31.1	34.4	1	45.4	66.1	1
S-CSMDJ30A	SMDJ30A	30	33.3	36.8	1	48.4	62	1
S-CSMDJ33A	SMDJ33A	33	36.7	40.6	1	53.3	56.3	1
S-CSMDJ36A	SMDJ36A	36	40	44.2	1	58.1	51.6	1
S-CSMDJ40A	SMDJ40A	40	44.4	49.1	1	64.5	46.5	1
S-CSMDJ43A	SMDJ43A	43	47.8	52.8	1	69.4	43.2	1
S-CSMDJ45A	SMDJ45A	45	50	55.3	1	72.7	41.3	1
S-CSMDJ48A	SMDJ48A	48	53.3	58.9	1	77.4	38.8	1
S-CSMDJ51A	SMDJ51A	51	56.7	62.7	1	82.4	36.4	1
S-CSMDJ54A	SMDJ54A	54	60	66.3	1	87.1	34.4	1
S-CSMDJ58A	SMDJ58A	58	64.4	71.2	1	93.6	32.1	1
S-CSMDJ60A	SMDJ60A	60	66.7	73.7	1	96.8	31	1
S-CSMDJ64A	SMDJ64A	64	71.1	78.6	1	103	29.1	1
S-CSMDJ70A	SMDJ70A	70	77.8	86	1	113	26.5	1
S-CSMDJ75A	SMDJ75A	75	83.3	92.1	1	121	24.8	1
S-CSMDJ78A	SMDJ78A	78	86.7	95.8	1	126	23.8	1
S-CSMDJ85A	SMDJ85A	85	94.4	104	1	137	21.9	1
S-CSMDJ90A	SMDJ90A	90	100	111	1	146	20.5	1
S-CSMDJ100A	SMDJ100A	100	111	123	1	162	18.5	1
S-CSMDJ110A	SMDJ110A	110	122	135	1	177	16.9	1
S-CSMDJ120A	SMDJ120A	120	133	147	1	193	15.5	1
S-CSMDJ130A	SMDJ130A	130	144	159	1	209	14.4	1
S-CSMDJ150A	SMDJ150A	150	167	185	1	243	12.3	1
S-CSMDJ160A	SMDJ160A	160	178	197	1	259	11.6	1
S-CSMDJ170A	SMDJ170A	170	189	209	1	275	10.9	1
S-CSMDJ180A	SMDJ180A	180	198	221	1	291	10.3	1
S-CSMDJ190A	SMDJ190A	190	209	233	1	307	9.8	1
S-CSMDJ200A	SMDJ200A	200	220	246	1	324	9.3	1
S-CSMDJ220A	SMDJ220A	220	246	272	1	356	8.4	1
S-CSMDJ250A	SMDJ250A	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

Fig. 5 - Maximum Non-repetitive Peak

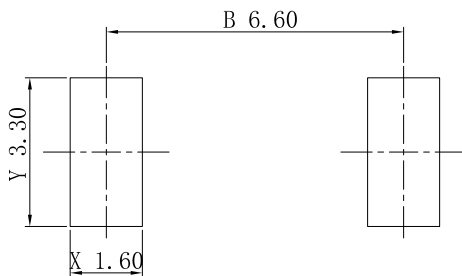
6. OUTLINE AND DIMENSIONS



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



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