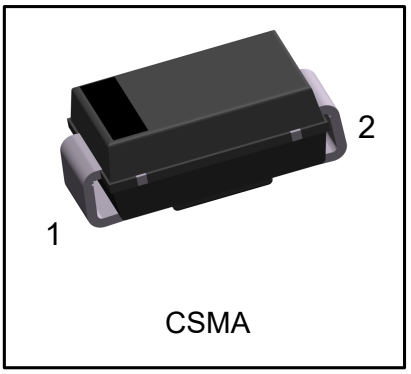
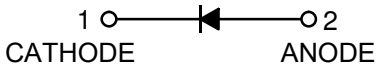
S-CSMAJ***A

Surface Mount Transient Voltage Suppressors
Voltage 5.0 to 400 Volts 400 Watt 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%
- Fast response time: typically less than 1.0ps from 0 Volts to V(BR) for unidirectional types
- Typical IR less than 1mA above 10V
- 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.





2. MECHANICAL DATA

Case: JEDEC DO-214AC, molded plastic over glass die

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.07g

3. MAXIMUM RATINGS AND CHARACTERISTICS

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%.

PARAMETER	SYMBOL	VALUE	UNITS
Peak Power Dissipation at T_A=25°C, T_P=1ms (Note 1)	P_{PPM}	Minimum 400	W
Steady State Power Dissipation at TL=75°C(Note 2)	$P_{M(AV)}$	1.0	W
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JECED Method) (Note 2)	I_{FSM}	30	A
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES:

1. Non-repetitive current pulse per Fig. 3 and derated above Ta=25°C Per Fig. 2
2. Mounted on Copper Leaf area of 1.57in^2 (40mm^2).
3. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.

4. ELECTRICAL CHARACTERISTICS (Ta= 25ºC)

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-CSMAJ5.0A	AE	5.00	6.40	7.00	10.00	9.20	43.50	800
S-CSMAJ6.0A	AG	6.00	6.67	7.37	10.00	10.30	38.80	800
S-CSMAJ6.5A	AK	6.50	7.22	7.98	10.00	11.20	35.70	500
S-CSMAJ7.0A	AM	7.00	7.78	8.60	10.00	12.00	33.30	200
S-CSMAJ7.5A	AP	7.50	8.33	9.21	1.00	12.90	31.00	100
S-CSMAJ8.0A	AR	8.00	8.89	9.83	1.00	13.60	29.40	50
S-CSMAJ8.5A	AT	8.50	9.44	10.40	1.00	14.40	27.80	20
S-CSMAJ9.0A	AV	9.00	10.00	11.10	1.00	15.40	26.00	10
S-CSMAJ10A	AX	10.00	11.10	12.30	1.00	17.00	23.50	1
S-CSMAJ11A	AZ	11.00	12.20	13.50	1.00	18.20	22.00	1
S-CSMAJ12A	BE	12.00	13.30	14.70	1.00	19.90	20.10	1
S-CSMAJ13A	BG	13.00	14.40	15.90	1.00	21.50	18.60	1
S-CSMAJ14A	BK	14.00	15.60	17.20	1.00	23.20	17.20	1
S-CSMAJ15A	BM	15.00	16.70	18.50	1.00	24.40	16.40	1
S-CSMAJ16A	BP	16.00	17.80	19.70	1.00	26.00	15.40	1
S-CSMAJ17A	BR	17.00	18.90	20.90	1.00	27.60	14.50	1
S-CSMAJ18A	BT	18.00	20.00	22.10	1.00	29.20	13.70	1
S-CSMAJ20A	BV	20.00	22.20	24.50	1.00	32.40	12.30	1
S-CSMAJ22A	BX	22.00	24.40	26.90	1.00	35.50	11.30	1
S-CSMAJ24A	BZ	24.00	26.70	29.50	1.00	38.90	10.30	1
S-CSMAJ26A	CE	26.00	28.90	31.90	1.00	42.10	9.50	1
S-CSMAJ28A	CG	28.00	31.10	34.40	1.00	45.40	8.80	1
S-CSMAJ30A	CK	30.00	33.30	36.80	1.00	48.40	8.30	1
S-CSMAJ33A	CM	33.00	36.70	40.60	1.00	53.30	7.50	1
S-CSMAJ36A	CP	36.00	40.00	44.20	1.00	58.10	6.90	1
S-CSMAJ40A	CR	40.00	44.40	49.10	1.00	64.50	6.20	1
S-CSMAJ43A	CT	43.00	47.80	52.80	1.00	69.40	5.80	1
S-CSMAJ45A	CV	45.00	50.00	55.30	1.00	72.70	5.50	1
S-CSMAJ48A	CX	48.00	53.30	58.90	1.00	77.40	5.20	1
S-CSMAJ51A	CZ	51.00	56.70	62.70	1.00	82.40	4.90	1
S-CSMAJ54A	RE	54.00	60.00	66.30	1.00	87.10	4.60	1
S-CSMAJ58A	RG	58.00	64.40	71.20	1.00	93.60	4.30	1
S-CSMAJ60A	RK	60.00	66.70	73.70	1.00	96.80	4.10	1
S-CSMAJ64A	RM	64.00	71.10	78.60	1.00	103.00	3.90	1
S-CSMAJ70A	RP	70.00	77.80	86.00	1.00	113.00	3.50	1
S-CSMAJ75A	RR	75.00	83.30	92.10	1.00	121.00	3.30	1
S-CSMAJ78A	RT	78.00	86.70	95.80	1.00	126.00	3.20	1
S-CSMAJ85A	RV	85.00	94.40	104.00	1.00	137.00	2.90	1
S-CSMAJ90A	RX	90.00	100.00	111.00	1.00	146.00	2.70	1
S-CSMAJ100A	RZ	100.00	111.00	123.00	1.00	162.00	2.50	1
S-CSMAJ110A	SE	110.00	122.00	135.00	1.00	177.00	2.30	1
S-CSMAJ120A	SG	120.00	133.00	147.00	1.00	193.00	2.10	1
S-CSMAJ130A	SK	130.00	144.00	159.00	1.00	209.00	1.90	1
S-CSMAJ150A	SM	150.00	167.00	185.00	1.00	243.00	1.60	1
S-CSMAJ160A	SP	160.00	178.00	197.00	1.00	259.00	1.50	1
S-CSMAJ170A	SR	170.00	189.00	209.00	1.00	275.00	1.50	1
S-CSMAJ180A	ST	180.00	198.00	221.00	1.00	291.00	1.40	1
S-CSMAJ190A	SV	190.00	209.00	233.00	1.00	307.00	1.30	1
S-CSMAJ200A	SX	200.00	220.00	246.00	1.00	324.00	1.30	1
S-CSMAJ220A	SY	220.00	246.00	272.00	1.00	356.00	1.20	1
S-CSMAJ250A	SZ	250.00	279.00	309.00	1.00	405.00	1.00	1
S-CSMAJ300A	TE	300.00	335.00	371.00	1.00	486.00	0.80	1
S-CSMAJ350A	TG	350.00	391.00	432.00	1.00	567.00	0.70	1
S-CSMAJ400A	TK	400.00	447.00	494.00	1.00	648.00	0.60	1

5. ELECTRICAL CHARACTERISTIC CURVES

Fig. 1-Peak Pulse Power Rating Curve

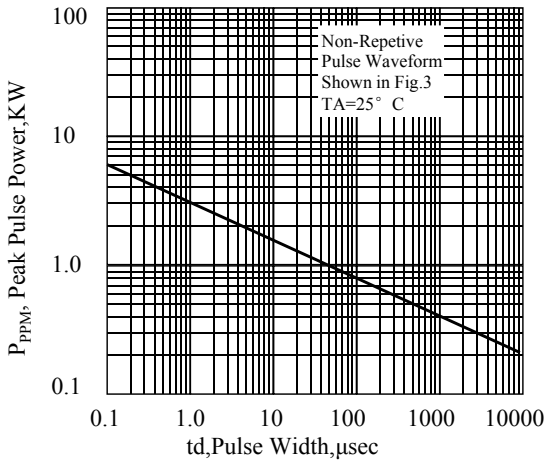


Fig. 2-Pulse Derating Curve

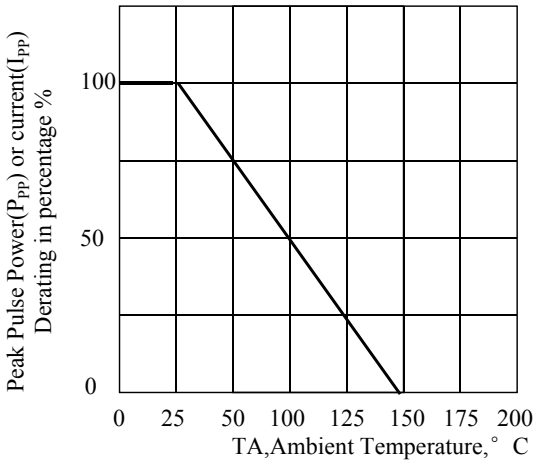


Fig. 3-Pulse Waveform

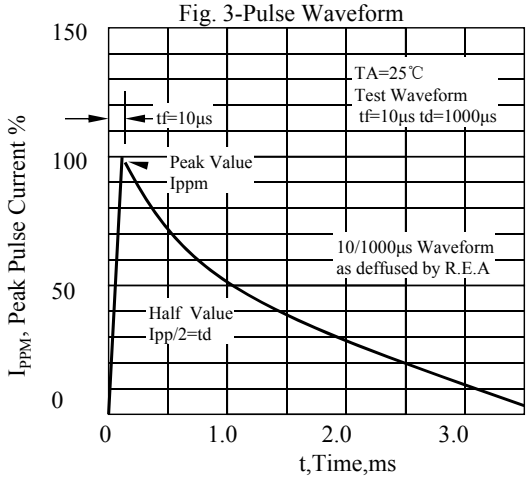


Fig. 4-Typical Junction Capacitance
Unidirectional

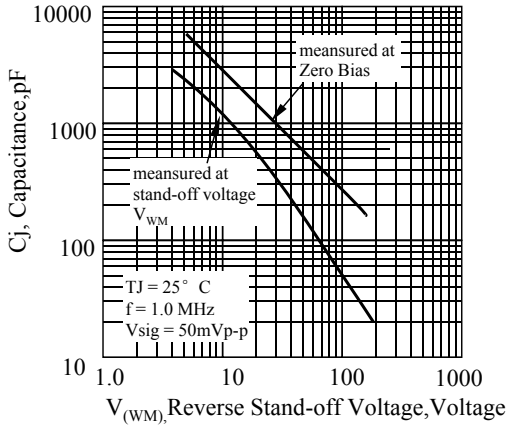


Fig 5. – typical transient thermal
impedance

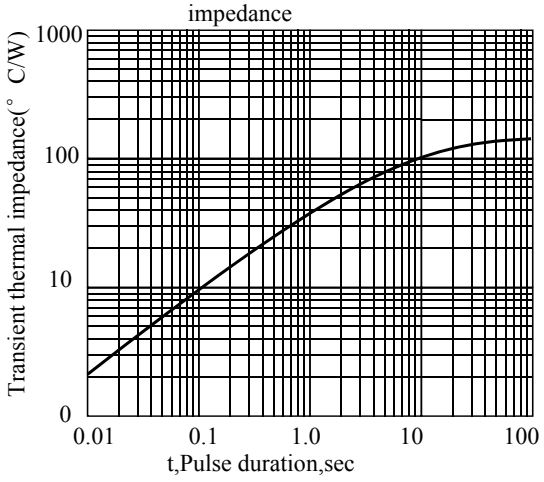
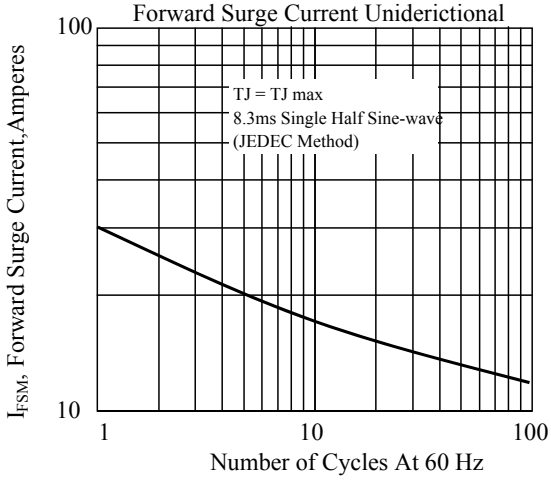
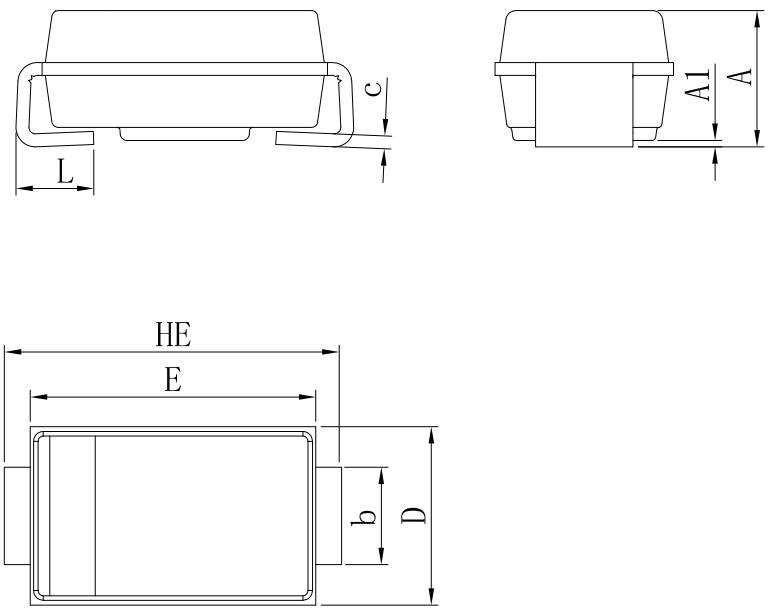


Fig. 6-Maximum Non-Repetitive Peak
Forward Surge Current Unidirectional

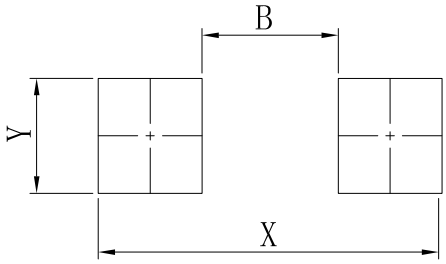


6. OUTLINE AND DIMENSIONS



CSMA			
DIM	MIN	TYP	MAX
A	1.97	2.10	2.29
A1	0.05	0.10	0.20
b	1.35	1.50	1.65
c	0.10	0.20	0.30
D	2.40	2.75	2.92
E	4.10	4.40	4.57
HE	4.70	5.27	5.59
L	0.76	1.20	1.52
All Dimensions in mm			

7. SOLDERING FOOTPRINT



CSMA		
DIM	MIN	MAX
X	5.30REF	
Y	1.72	1.82
B	1.90	2.30

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