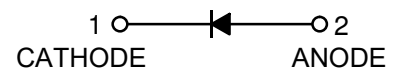
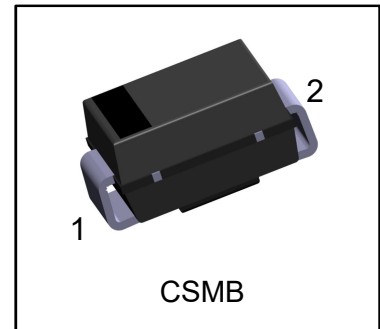


CSMBJ***A

Surface Mount Transient Voltage Suppressor
Voltage 5.0 to 250 V, 600 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%
- Fast response time: typically less than 1.0ps
- 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.
- Weight: 0.11g



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	UNITS
Peak Power Dissipation at $T_A=25^{\circ}\text{C}$, $T_P=1\text{ms}$ (Note 1)	Minimum 600	Watts
Steady State Power Dissipation at $T_L=75^{\circ}\text{C}$ (Note 2)	3.0	Watts
Operating Temperature Range	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	-55 to +175	$^{\circ}\text{C}$

NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above $T_A=25^{\circ}\text{C}$ 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= 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)
CSMBJ5.0A	SMBJ5.0A	5	6.4	7	10	9.2	65.3	800
CSMBJ6.0A	SMBJ6.0A	6	6.67	7.37	10	10.3	58.3	800
CSMBJ6.5A	SMBJ6.5A	6.5	7.22	7.98	10	11.2	53.6	500
CSMBJ7.0A	SMBJ7.0A	7	7.78	8.6	10	12	50	200
CSMBJ7.5A	SMBJ7.5A	7.5	8.33	9.21	1	12.9	46.6	100
CSMBJ8.0A	SMBJ8.0A	8	8.89	9.83	1	13.6	44.2	50
CSMBJ8.5A	SMBJ8.5A	8.5	9.44	10.4	1	14.4	41.7	20
CSMBJ9.0A	SMBJ9.0A	9	10	11.1	1	15.4	39	10
CSMBJ10A	SMBJ10A	10	11.1	12.3	1	17	35.3	1
CSMBJ11A	SMBJ11A	11	12.2	13.5	1	18.2	33	1
CSMBJ12A	SMBJ12A	12	13.3	14.7	1	19.9	30.2	1
CSMBJ13A	SMBJ13A	13	14.4	15.9	1	21.5	28	1
CSMBJ14A	SMBJ14A	14	15.6	17.2	1	23.2	25.9	1
CSMBJ15A	SMBJ15A	15	16.7	18.5	1	24.4	24.6	1
CSMBJ16A	SMBJ16A	16	17.8	19.7	1	26	23.1	1
CSMBJ17A	SMBJ17A	17	18.9	20.9	1	27.6	21.8	1
CSMBJ18A	SMBJ18A	18	20	22.1	1	29.2	20.6	1
CSMBJ20A	SMBJ20A	20	22.2	24.5	1	32.4	18.6	1
CSMBJ22A	SMBJ22A	22	24.4	26.9	1	35.5	16.9	1
CSMBJ24A	SMBJ24A	24	26.7	29.5	1	38.9	15.5	1
CSMBJ26A	SMBJ26A	26	28.9	31.9	1	42.1	14.3	1
CSMBJ28A	SMBJ28A	28	31.1	34.4	1	45.4	13.3	1
CSMBJ30A	SMBJ30A	30	33.3	36.8	1	48.4	12.4	1
CSMBJ33A	SMBJ33A	33	36.7	40.6	1	53.3	11.3	1
CSMBJ36A	SMBJ36A	36	40	44.2	1	58.1	10.4	1
CSMBJ40A	SMBJ40A	40	44.4	49.1	1	64.5	9.3	1
CSMBJ43A	SMBJ43A	43	47.8	52.8	1	69.4	8.7	1
CSMBJ45A	SMBJ45A	45	50	55.3	1	72.7	8.3	1
CSMBJ48A	SMBJ48A	48	53.3	58.9	1	77.4	7.8	1
CSMBJ51A	SMBJ51A	51	56.7	62.7	1	82.4	7.3	1
CSMBJ54A	SMBJ54A	54	60	66.3	1	87.1	6.9	1
CSMBJ58A	SMBJ58A	58	64.4	71.2	1	93.6	6.5	1
CSMBJ60A	SMBJ60A	60	66.7	73.7	1	96.8	6.2	1
CSMBJ64A	SMBJ64A	64	71.1	78.6	1	103	5.9	1
CSMBJ70A	SMBJ70A	70	77.8	86	1	113	5.3	1
CSMBJ75A	SMBJ75A	75	83.3	92.1	1	121	5	1
CSMBJ78A	SMBJ78A	78	86.7	95.8	1	126	4.8	1
CSMBJ85A	SMBJ85A	85	94.4	104	1	137	4.4	1
CSMBJ90A	SMBJ90A	90	100	111	1	146	4.1	1
CSMBJ100A	SMBJ100A	100	111	123	1	162	3.7	1
CSMBJ110A	SMBJ110A	110	122	135	1	177	3.4	1
CSMBJ120A	SMBJ120A	120	133	147	1	193	3.1	1
CSMBJ130A	SMBJ130A	130	144	159	1	209	2.9	1
CSMBJ150A	SMBJ150A	150	167	185	1	243	2.5	1
CSMBJ160A	SMBJ160A	160	178	197	1	259	2.3	1
CSMBJ170A	SMBJ170A	170	189	209	1	275	2.2	1
CSMBJ180A	SMBJ180A	180	198	221	1	291	2.1	1
CSMBJ190A	SMBJ190A	190	209	233	1	307	2	1
CSMBJ200A	SMBJ200A	200	220	246	1	324	1.9	1
CSMBJ220A	SMBJ220A	220	246	272	1	356	1.7	1
CSMBJ250A	SMBJ250A	250	279	309	1	405	1.5	1

5. ELECTRICAL CHARACTERISTICS CURVES

Fig. 1-Peak Pulse Power Rating Curve

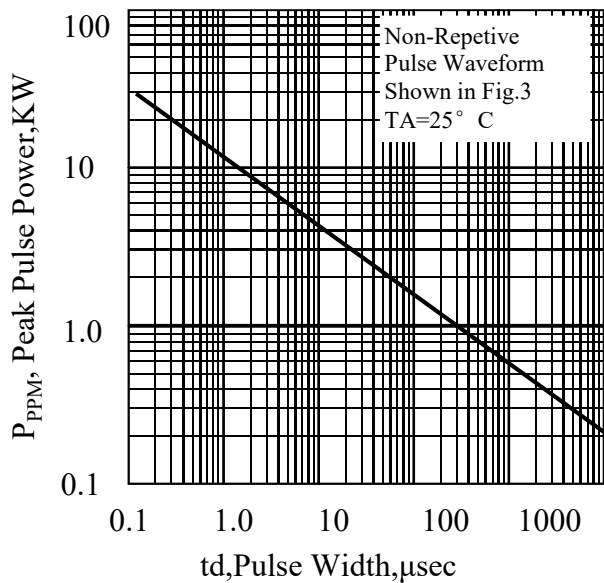


Fig. 2-Pulse Derating Curve

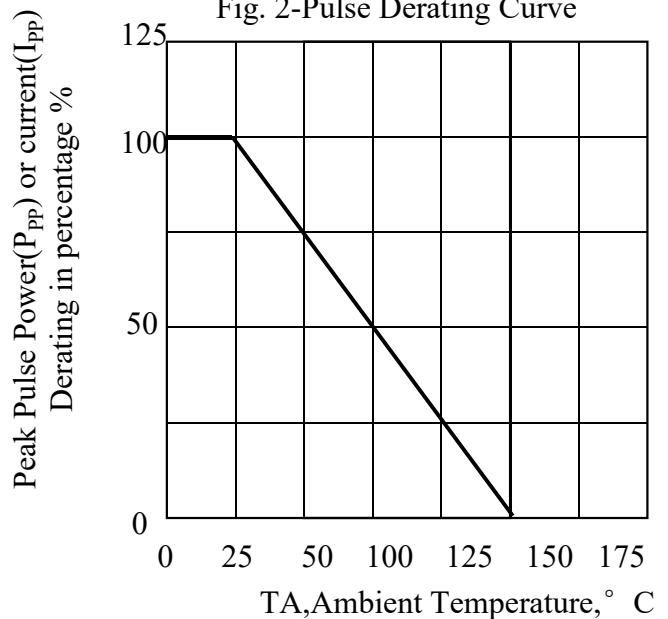


Fig. 3-Pulse Waveform

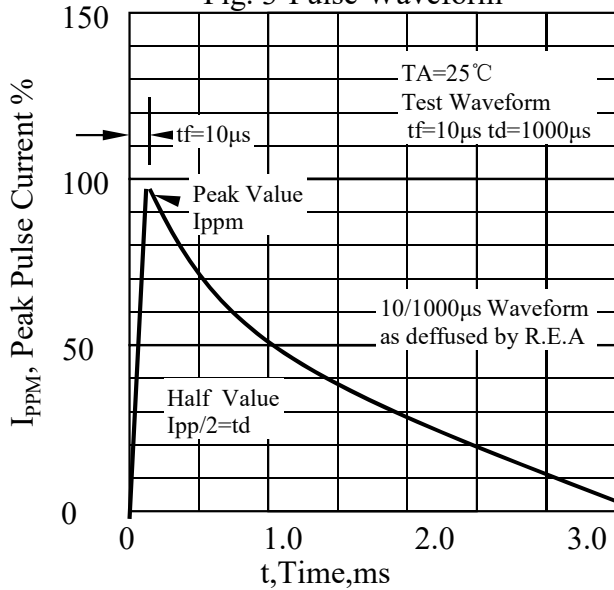
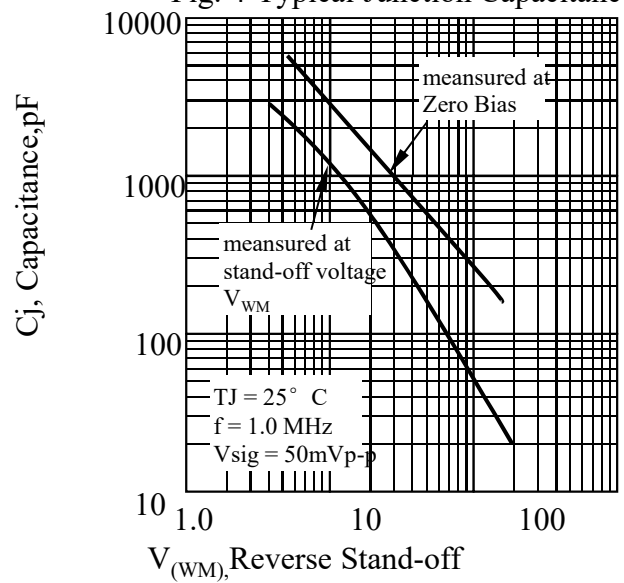
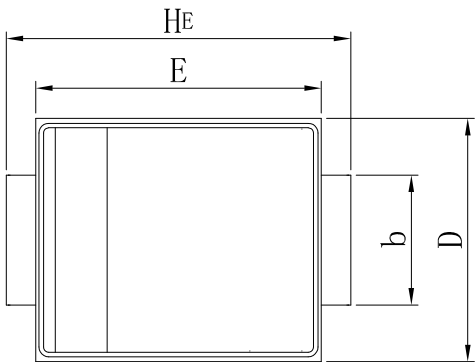
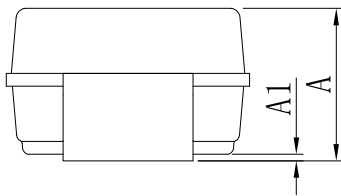
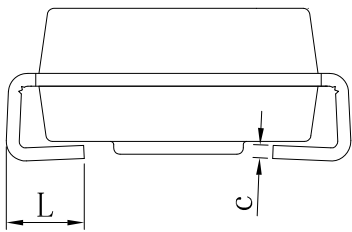


Fig. 4-Typical Junction Capacitance

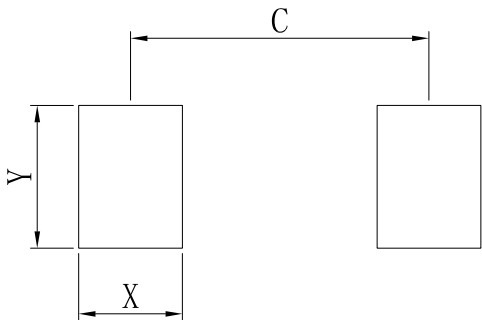


6. OUTLINE AND DIMENSIONS



CSMB			
DIM	MIN	TYP	MAX
A	2.20	2.35	2.50
A1	0.05	0.10	0.20
b	1.80	2.00	2.20
c	0.10	0.20	0.30
D	3.30	3.75	3.94
E	4.06	4.40	4.60
HE	5.20	5.31	5.45
L	0.90	1.30	1.60
All Dimensions in mm			

7. SOLDERING FOOTPRINT



CSMB	
DIM	(mm)
X	1.60
Y	2.20
C	4.60

DISCLAIMER

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