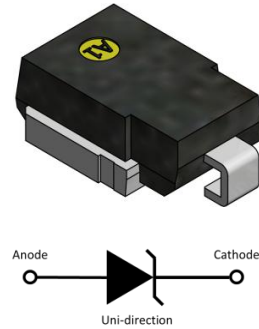


S-SM8SxxA系列

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

1. FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- T=175°C capability suitable for high reliability and automotive requirement
- Low leakage current
- Low forward voltage drop
- Meets RoHS2.0 (2011/65/EU)
- Meets MSL level 1, per J-STD-020
- Meet ISO7637-2 surge specification
- S-prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable
- Weight: 2.7g



2. MECHANICAL DATA

Case: Epoxy, Molded

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

Polarity: Heatsink is anode

3. MAXIMUM RATINGS(T_c = 25°C)

RATING	VALUE	UNITS
Peak pulse power dissipation at 10/1000μs waveform	6600	Watts
Power dissipation on infinite heat sink at TL=25°C	8.0	Watts
Peak forward surge current, 8.3ms single half sine-wave	700	A
Operating Temperature Range	-55 to +175	°C

S-SM8SxxA Series

Uni- Directional Part Number	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)
S-SM8S20A	SM8S20A	20	22.2	24.5	5	32.4	204	10
S-SM8S22A	SM8S22A	22	24.4	26.9	5	35.5	186	10
S-SM8S24A	SM8S24A	24	26.7	29.5	5	38.9	170	10
S-SM8S26A	SM8S26A	26	28.9	31.9	5	42.1	157	10
S-SM8S28A	SM8S28A	28	31.1	34.4	5	45.4	145	10
S-SM8S30A	SM8S30A	30	33.3	36.8	5	48.4	136	10
S-SM8S33A	SM8S33A	33	36.7	40.6	5	53.3	124	10
S-SM8S36A	SM8S36A	36	40	44.2	5	58.1	114	10
S-SM8S40A	SM8S40A	40	44.4	49.1	5	64.5	102	10
S-SM8S43A	SM8S43A	43	47.8	52.8	5	69.4	95.1	10

5. ELECTRICAL CHARACTERISTICS CURVES

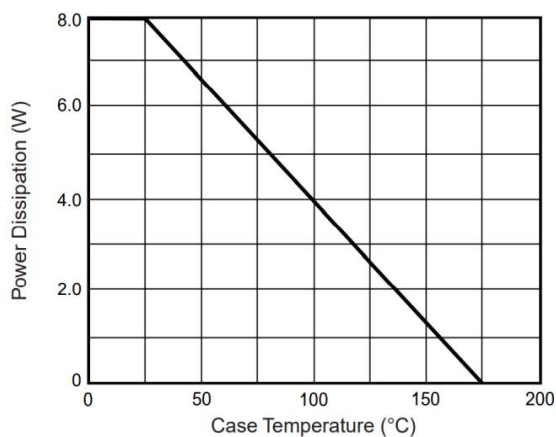


Fig.1: Power Derating Curve

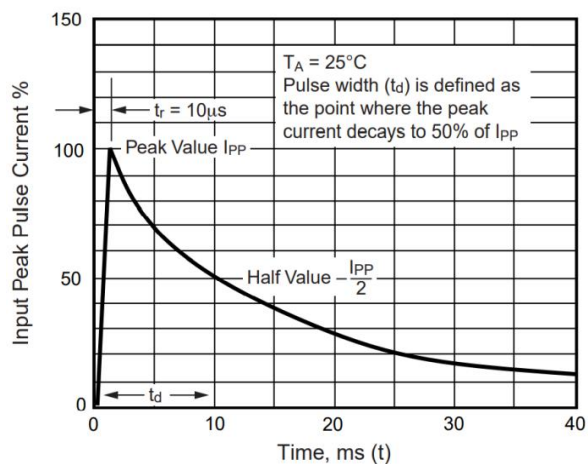


Fig.2: Pulse Waveform

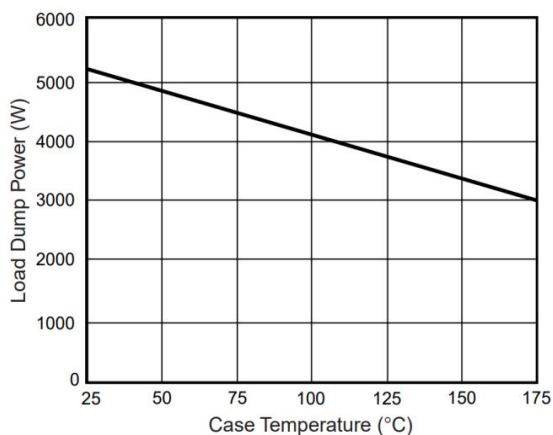


Fig.3: Load Dump Power Characteristics
(10 ms Exponential Waveform)

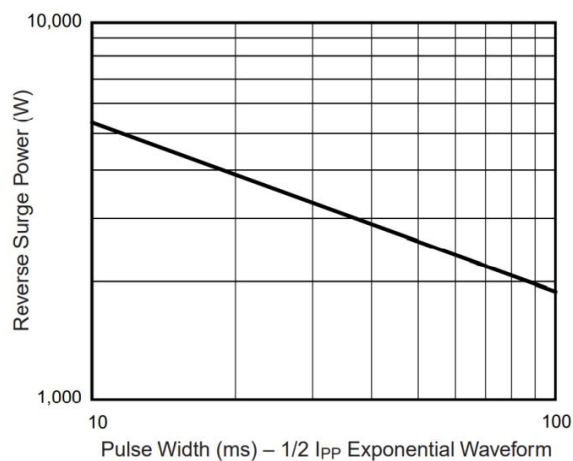
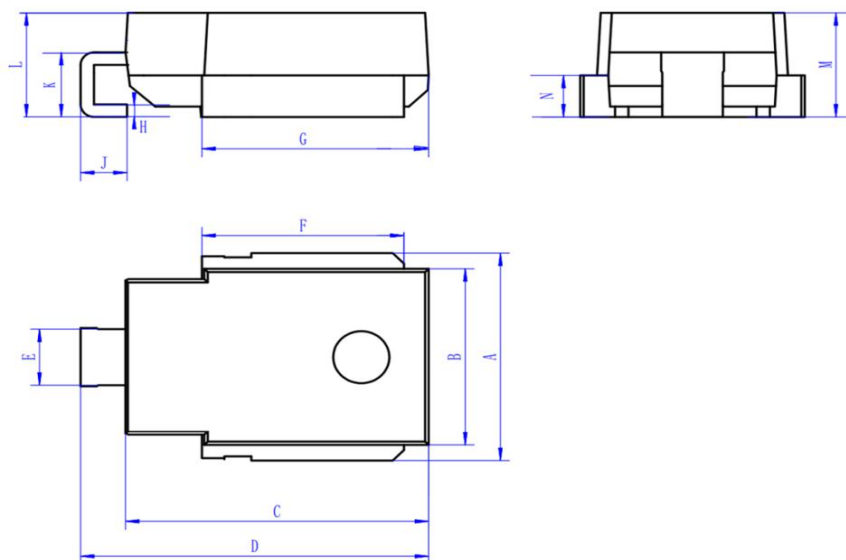


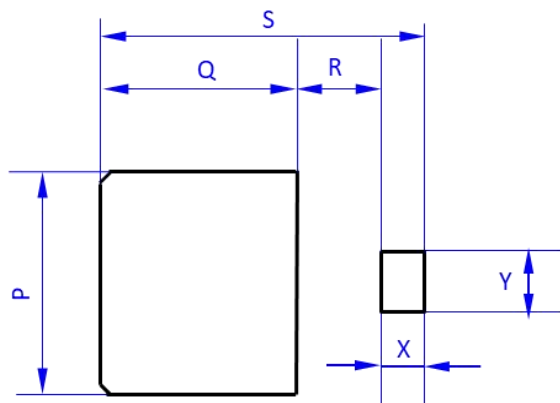
Fig.4: Reverse Power Capability

6.OUTLINE AND DIMENSIONS



DO-218AB			
DIM	Min	Max	Typ.
A	9.5	10.5	10.0
B	8.3	8.7	8.5
C	13.3	13.7	13.5
D	15.0	16.0	15.5
E	2.4	3.1	2.7
G	8.7	9.3	9.0
H	0.5	0.7	0.6
J	1.6	2.2	2.1
K	2.5	3.5	3.1
L	4.8	5.8	5.0
M	4.9	5.2	5.0
N	1.9	2.1	2.0
All Dimensions in mm			

7.SOLDERING FOORPRINT



DO-218AB			
DIM	Min	Max	Typ.
P	9.5	10.5	10.0
Q	8.7	9.3	9.0
R	3.2	3.8	3.4
S	14.2	14.8	14.5
X	2.4	3.1	2.7
Y	1.6	2.2	2.1
All Dimensions in mm			