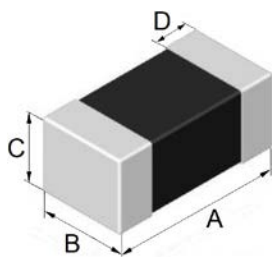


SMD Transient Voltage Suppressors**TVSM1206SSPF-Series****1. Dimension**

Series	A(mm)	B(mm)	C(mm)	D(mm)
1206	3.20±0.20	1.60±0.15	1.50 max.	0.50±0.20

2. Part Numbering

TVSM 1206 SSP F 820 - 101 A □

A B C D E F G H

A: Series
B: Dimension
C: Category Code
D: Product Grade
E: Voltage Code
F: Characteristic Code
G: Characteristic Unit Code
H: Type Code

Multilayer Varistor
Standard Surge Protection with PoE
General Grade
820=Breakdown Voltage 82V
101= Peak Current 100A
A=Amp

3. Technology Data

TAI-TECH Part Number	Maximum allowable continuous AC voltage @ 50-60Hz (V)	Maximum allowable continuous DC voltage (V)	Varistor breakdown voltage (V)	Maximum allowable clamping voltage (V)	Maximum peak current (A)
TVSM1206SSPF820-101A	50	65	82(73.8~90.2)	135	100

Notes :

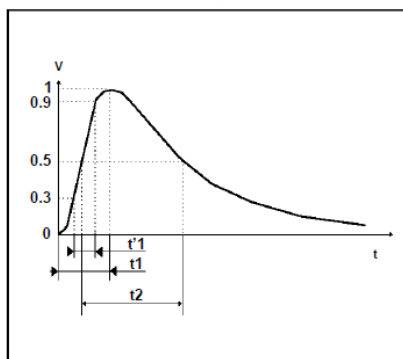
1. The varistor breakdown voltage was measured at 1mA.
2. The clamping voltage was measured at 8/20μs standard current, 1206(1A)
3. The peak current was tested at 8/20μs waveform.

3-1. Reference Data			
ITEM	Symbol	Unit	Value
Maximum energy absorption	E	J	0.5
Typical capacitance value measured at 1KHz	C	pF	175
Response time	Trise	ns	< 1
Leakage current at Vv x 80% (at initial state)	I _{VV}	μA	< 50
Leakage current at Vv x 80% (after surge test)	I _{VVA}	μA	< 200
Operation ambient temperature	T _{OPT}	°C	-50~+125
Storage temperature range	T _{STG}	°C	-50~+150
3-2. Other Data			
Body		ZnO	
End termination		Ag/Ni/Sn	
Packaging		Reel	
Complies with standard		IEC61000-4-5	
Complies with RoHs standard		Yes	
Lead content		< 1000 ppm	
Marking		None	

Notes :

1. The capacitance and energy values only for customer reference, it's not formal specification.

4. Surge Wave Form



IEC61000-4-5 Standards

SEVERITY LEVEL	t1 (=1.67t'1)	t2
1	8μS	20μS
2	10μS	1000μS

8/20μs waveform current