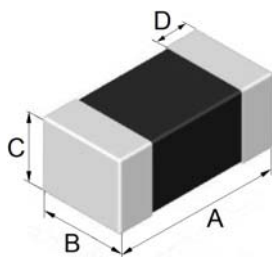


SMD Transient Voltage Suppressors

TVSM0603SSXO-Series

1. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
0603	1.60±0.15	0.80±0.10	0.90 max.	0.30±0.10

2. Part Numbering

TVSM 0603 SSX O 330 - 300 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: Inner Code

Multilayer Varistor
 Standard Surge Protection
 O =Industrial Grade
 330=Breakdown Voltage 33V
 300= Peak Current 30A
 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)
TVSM0603SSXO330-300A	20	26	33(29.7~36.3)	54	30

Notes :

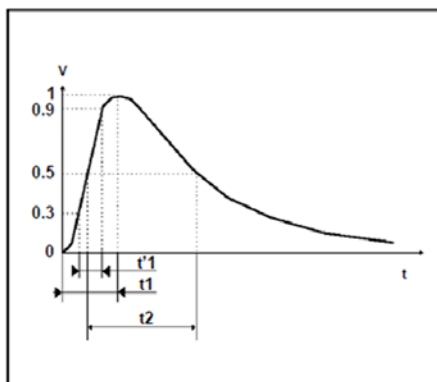
1. The varistor breakdown voltage was measured at 1mA.
2. The clamping voltage was measured at 8/20μs standard current. 0603(1A)
3. The peak current was tested at 8/20μs waveform.

3-1. Reference Data			
ITEM	Symbol	Unit	Value
Maximum energy absorption	E	J	0.1
Typical capacitance value measured at 1KHz	C	pF	130
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