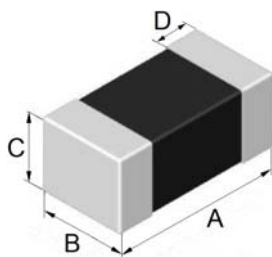


SMD Transient Voltage Suppressors

TVSM0201ESXF-Series

1. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
0201	0.60±0.03	0.30±0.03	0.30±0.03	0.15±0.05

2. Part Numbering

TVSM 0201 ESX F 120 - 2R5 P P

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 ESD Protection

General Grade

120=Working Voltage 12V

2R5=Capacitance Value 2.5pF

P=pF

Capacitance Tolerance

3. Specification

TAI-TECH Part Number	Maximum allowable continuous DC voltage (V)	Varistor breakdown voltage (V)	Typical capacitance value @ 1MHz (pF)	Typical capacitance value tolerance (%)	Maximum allowable clamping voltage (V)	Leakage current at V_{DC} (at initial state) (μA)	Leakage current at V_{DC} (after ESD test) (μA)
TVSM0201ESXF120-2R5PP	12	60~80	2.5	+80/-20	130	< 1	< 2

Notes :

1. The varistor breakdown voltage was measured at 1mA.
2. The clamping voltage was measured at 8/20 μs standard current.
3. The leakage current was measured at working voltage.

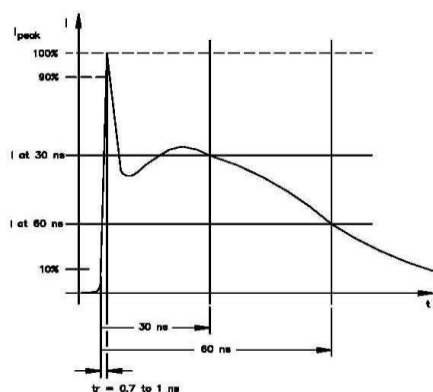
3-1. Reference Data

ITEM	Symbol	Unit	Value
Response time	T_{rise}	ns	< 0.5
Operation ambient temperature	T_{OPT}	$^{\circ}C$	-50~+85
Storage temperature range	T_{STG}	$^{\circ}C$	-50~+125
ESD testing	IEC61000-4-2		Level 4

3-2. Other Data

Body	ZnO
End termination	Ag/Ni/Sn
Packaging	Reel
Complies with standard	IEC61000-4-2
Complies with RoHs standard	Yes
Lead content	< 1000 ppm
Marking	None

4. ESD Wave Form



IEC61000-4-2 Standards

SEVERITY LEVEL	AIR DISCHARGE	DIRECT DISCHARGE
1	2 KV	2 KV
2	4 KV	4 KV
3	8 KV	6 KV
4	15 KV	8 KV

IEC61000-4-2 compliant ESD current pulse waveform