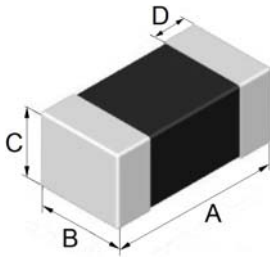


1. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
0402	1.00±0.10	0.50±0.10	0.60 max.	0.25±0.10

2. Part Numbering

TVS
0402
ML
080
C

A B C D E

A: Series

B: Dimension

C: Category Code

D: Breakdown Voltage 080=8V

E: Type Code

3. Specification

TAI-TECH Part Number	Maximum allowable continuous AC voltage at 50-60Hz V_{RMS} (V)	Maximum allowable continuous DC voltage V_{DC} (V)	Varistor breakdown voltage V_V (V)	Maximum allowable clamping voltage V_C (V)	Maximum peak current I_{PEAK} (A)
TVS0402ML080C	4	5.5	8(7.5~10.5)	20	20

Notes :

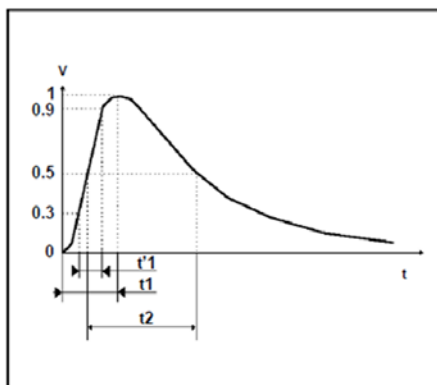
1. The varistor breakdown voltage was measured at 1mA.
2. The clamping voltage was measured at 8/20 μ s standard current.
3. The peak current was tested at 8/20 μ s waveform.

3-1. Reference Data			
ITEM	Symbol	Unit	Value
Maximum energy absorption	E	J	0.05
Typical capacitance value measured at 1KHz	C	pF	200
Response time	Trise	ns	< 1
Leakage current at $V_V \times 80\%$ (at initial state)	I_{VV}	μ A	< 50
Leakage current at $V_V \times 80\%$ (after surge test)	I_{VVA}	μ A	< 200
Operation ambient temperature	T_{OPT}	$^{\circ}$ C	-50~+85
Storage temperature range	T_{STG}	$^{\circ}$ C	-50~+125
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.
2. The components shall be employed within 1 year, in the nitrogen condition.

4. Surge Wave Form



IEC61000-4-5 Standards

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

8/20 μ s waveform current