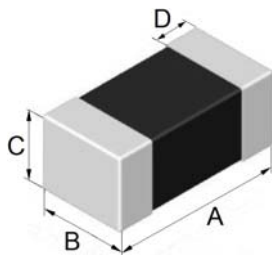


1. Dimension



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
E
050
-
100
Y

A B C D E F

A: Series

B: Dimension

C: Category Code

D: Working Voltage

050=5V

E: capacitance value

100=10pF

F: Tolerance

Y=±30%, P=+80/-20%

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)	Typical capacitance value measured at 1MHz C (pF)	Typical capacitance value tolerance t (%)	Maximum allowable clamping voltage V_C (V)	Leakage current at VDC (at initial state) I_{LDC} (μ A)	Leakage current at VDC (after ESD test) I_{LDCA} (μ A)
TVS0402E050-050P	3.3	5	28~38	5	+80/-20	72	< 0.1	< 2
TVS0402E050-100Y	3.3	5	28~38	10	\pm 30	72	< 0.1	< 2
TVS0402E120-100Y	8	12	28~38	10	\pm 30	72	< 0.1	< 2
TVS0402E240-0R8P	18	24	100~150	0.8	+80/-20	200	< 0.1	< 2
TVS0402E240-2R5P	18	24	100~150	2.5	+80/-20	200	< 0.1	< 2

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 leakage current was measured at working voltage.

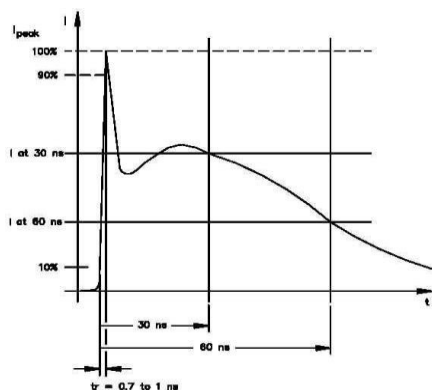
3-1. Reference Data			
ITEM	Symbol	Unit	Value
Response time	Trise	ns	TVS0402E050-050P : < 1 TVS0402E050-100Y : < 1 TVS0402E120-100Y : < 1 TVS0402E240-0R8P : < 1 TVS0402E240-2R5P : < 0.5
Operation ambient temperature	T _{OPT}	°C	-50~+85
Storage temperature range	T _{STG}	°C	-50~+125
ESD testing	IEC61000-4-2		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

Notes :

The components shall be employed within 1 year, in the nitrogen condition.

4. ESD Wave Form



SEVERITY LEVEL	AIR DIRCHARGE	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