

Transient Voltage Suppressors for ESD Protection

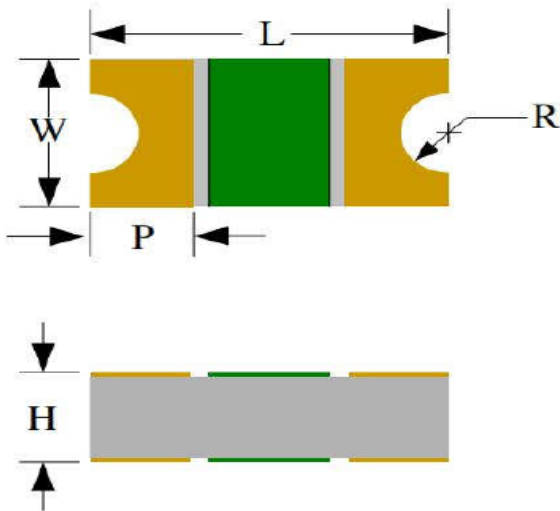
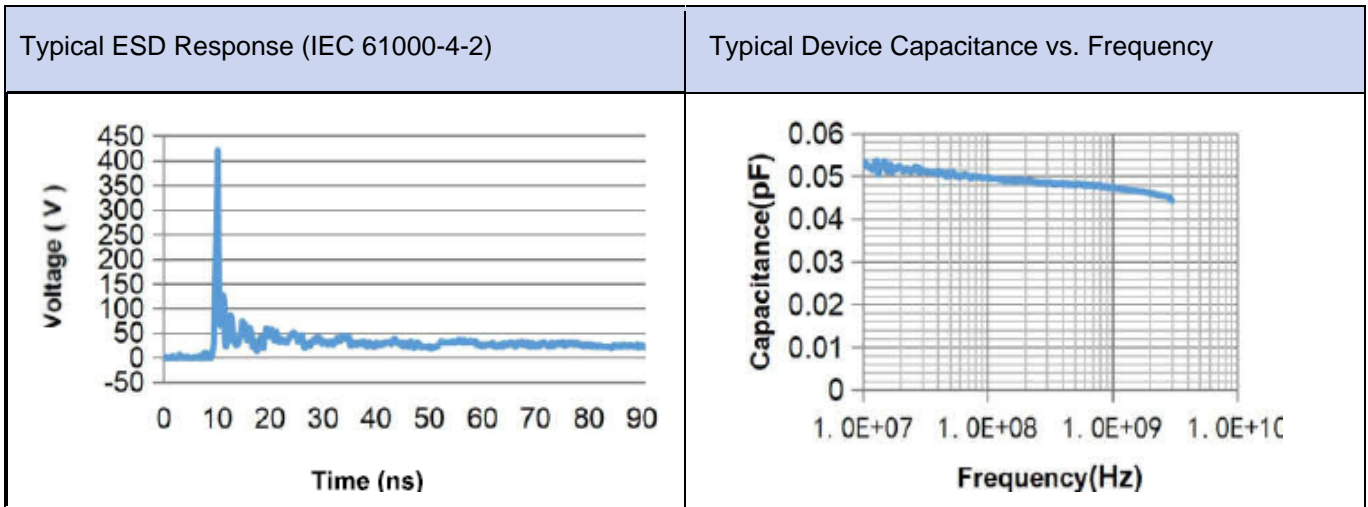
Primary characteristics			
Parameter	Symbol	Value	Unit
Continuous Operating Voltage	V _{DC}	5.0	V
ESD per IEC 61000-4-2 (contact)	V _{ESD}	8	kV
ESD per IEC 61000-4-2 (air)	V _{ESD}	15	kV
Capacitance	C _J	0.05	pF

Case dimensions	
0402	
Size (mm)	Delivery form
1.00 x 0.52 x 0.38	7" T&R

Features

- Ultra-low capacitance: 0.05pF (typ.)
- Low leakage current (<100nA)
- Fast response time (<1ns)
- Bi-directional, single line protection

Maximum ratings and electrical characteristics (T _a = 25°C)						
Characteristics	Test condition	Symbol	Value			Unit
			Min.	Typ.	Max.	
ESD per IEC 61000-4-2 (contact)	-	V _{ESD}	-20	-	+20	kV
ESD per IEC 61000-4-2 (air)						
Peak pulse power (8/20 μS)	-	P _{pk}	-	10	-	W
Peak Pulse Current	-	I _{pp}	-	4	-	A
Operating, storage temperature	-	T _j , T _{stg}	-55	-	150	°C
Reverse working voltage	-	V _{RWM}	-	-	5.0	V
Reverse breakdown voltage	I _T =1mA	V _{BR}	6.0	-	-	V
Reverse leakage current	V= V _{RWM} , T _a =25°C	I _R	-	-	100	μA
Clamping voltage	I _{pp} =1A, tp=8/20us	V _C	-	-	10	V
Junction capacitance	-	C _J	-	-	0.7	pF



Dimension	Unit: Millimeters	
	Min.	Max.
L	0.90	1.10
W	0.42	0.62
P	0.15	0.35
H	0.25	0.45
R	0.10	0.15

Ordering information		
Part Number / Marking code	Package	Shipping Quantity
PESD0402AS05	0402	3 000 pcs / 7" reel

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