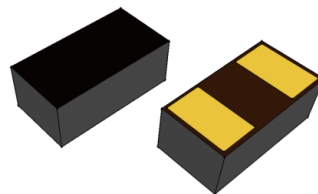


Features

- * Ultra low capacitance
- * Ultra low leakage: nA level
- * Low clamping voltage
- * Bi-directional ESD protection
- * RoHS Compliant
- * REACH & SVHC Compliant
- * Halogen Compliant
- * 0201 Package

Package



Applications

- * HDMI 2.0 and HDMI 2.1
- * USB2.0 and USB3.x
- * Gigabit Ethernet
- * Display Port Interface (DP)
- * Digital Visual Interface (DVI)
- * Unified Display Interface (UDI)

Circuit Diagram



Ordering Information

Part Number	Packaging	Reel Size
PESD0201V05	15000/Tape & Reel	7 inch

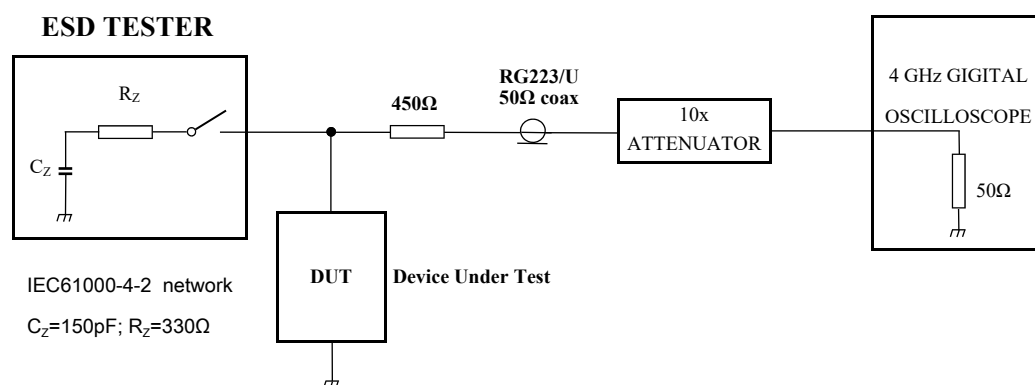
Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Contact)	V_{ESD}	± 15	kV
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 25	kV
Operating Temperature Range	T_J	-55 to $+125$	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to $+125$	$^{\circ}\text{C}$
Maximum lead temperature for soldering during 10s	T_L	260	$^{\circ}\text{C}$

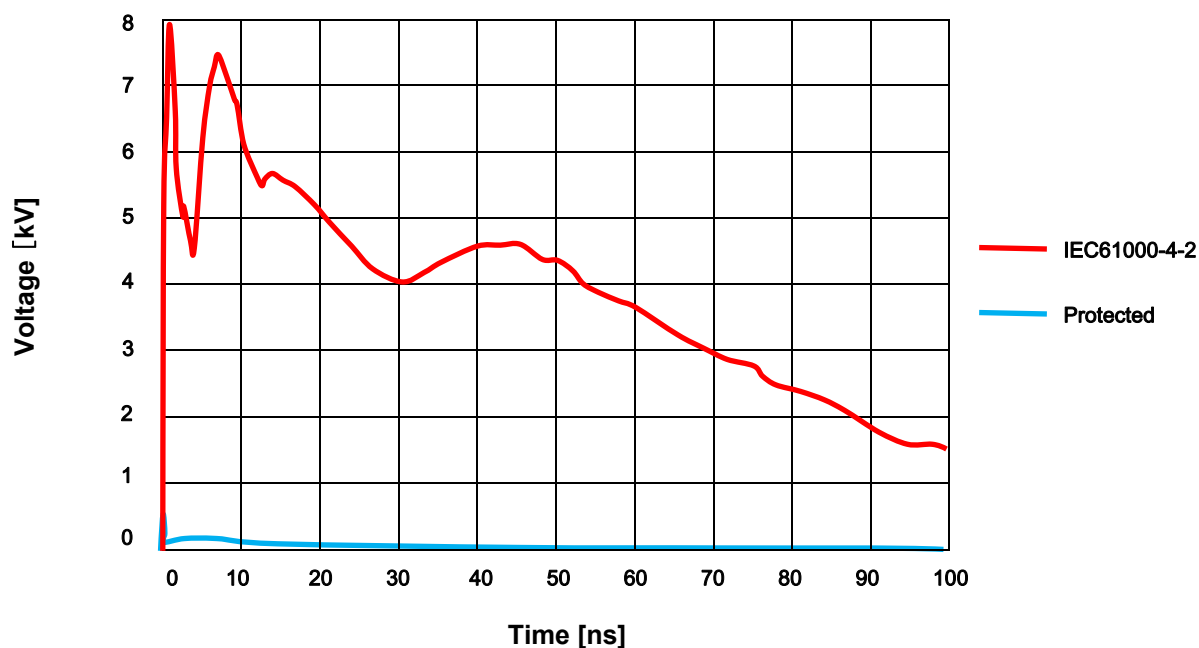
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				5	V
Trigger Voltage	V_{T}	IEC61000-4-2 8kV contact discharge		300		V
Clamping Voltage	V_{C}	IEC61000-4-2 8kV contact discharge		35		V
Reverse Leakage Current	I_{R}	$V_{\text{RWM}} = 5\text{V}$		10	100	nA
Junction Capacitance	C_{J}	$V_{\text{R}} = 0\text{V}$, $f = 1\text{MHz}$		0.05		pF

ESD Clamping Test

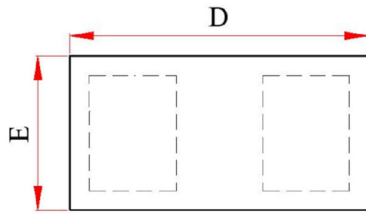


ESD Clamping Test Waveforms

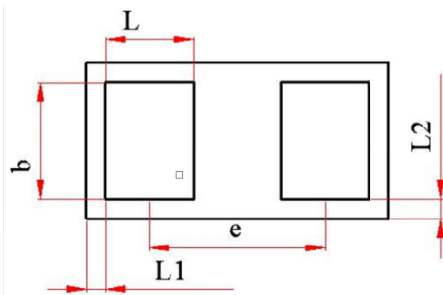


IEC61000-4-2 + 8kV voltage waveforms

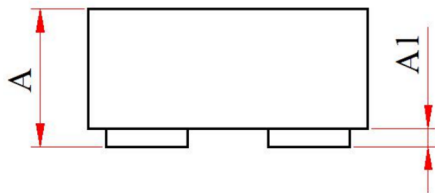
0201 Package Outline Drawing



TOP VIEW



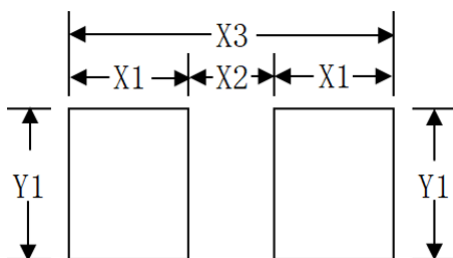
BOTTOM VIEW



SIDE VIEW

SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	Min	Typ	Max	Min	Typ	Max
A	0.25	0.30	0.35	0.0098	0.0118	0.0138
A1	--	--	0.05	--	--	0.0020
D	0.55	0.60	0.65	0.0217	0.0236	0.0256
E	0.25	0.30	0.35	0.0098	0.0118	0.0138
b	0.255	0.275	0.295	0.0100	0.0108	0.0116
L	0.18	0.20	0.22	0.0071	0.0079	0.0087
L1	0.01 REF			0.0004 REF		
L2	0.01 REF			0.0004 REF		
e	0.38 BSC			0.0150 BSC		

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X1	0.23	0.009
X2	0.15	0.006
X3	0.61	0.024
Y1	0.30	0.012