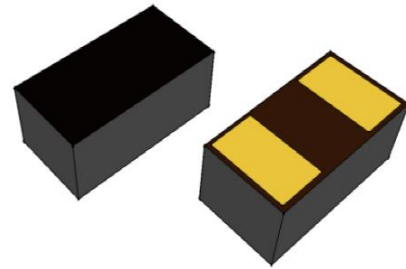




Features

- The best ESD protection for high speed ,high frequency and low voltage applications
- RoHS compliant and halogen free
- Ultra-low capacitance : $C_j=0.05\text{pF}$ (typ.)
- Low clamping voltage according to IEC61000-4-2
- Fast response time
- IEC61000-4-2 (ESD):Contact $\pm 8\text{kV}$ (typ.), $\pm 15\text{kV}$ (max.)
- IEC61000-4-2 (ESD):Air $\pm 15\text{kV}$ (typ.), $\pm 25\text{kV}$ (max.)
- Surface mount



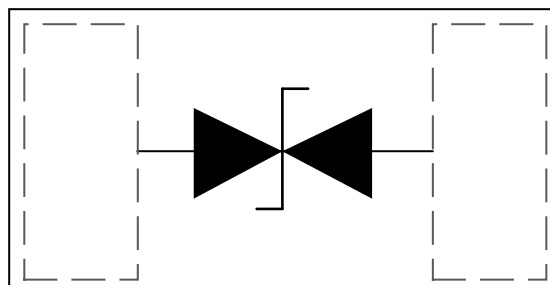
Applications

- USB2.0 and USB3.0
- Ultra-high-speed data line
- Sensitive interfaces lines
- High Definition Multi-media Interface(HDMI)
- Antenna applications
- 10/100/1000Mbit/s Ethernet

Mechanical Data

- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

Schematic & PIN Configuration



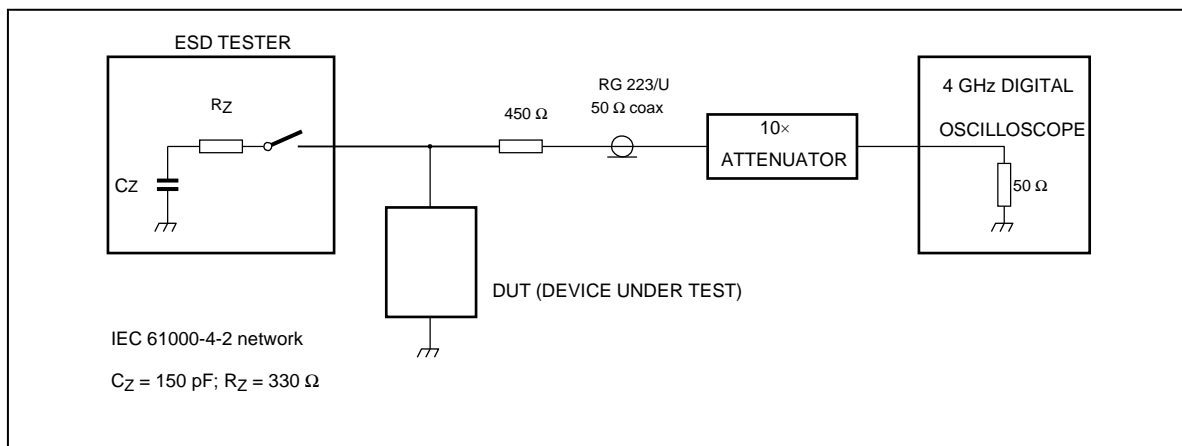
Absolute Maximum Rating

Rating	Symbol	Value	Units
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	25 15	kV
Lead Soldering Temperature	T_L	260(10seconds)	°C
Junction Temperature	T_J	-55 to + 125	°C
Storage Temperature	T_{stg}	-55 to + 125	°C

Electrical Characteristics

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Continuous Operating Voltage	V_{DC}				5	V
Reverse Leakage Current	I_R	$V_{DC}=5V, T=25^{\circ}C$		0.01	0.1	μA
Clamping Voltage	V_T	IEC61000-4-2 8kVcontact discharge		300		V
Clamping Voltage	V_C	IEC61000-4-2 8kVcontact discharge		35		V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$		0.05		pF

ESD Clamping Test





ESD Clamping Test Waveforms

Figure1: ESD pulse waveform according to IEC 61000-4-2

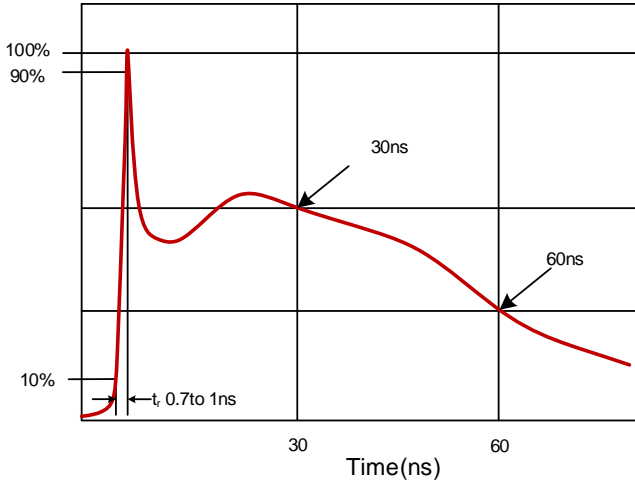
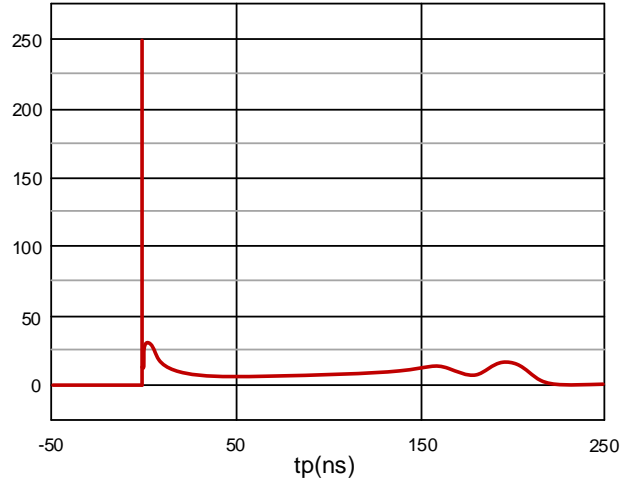
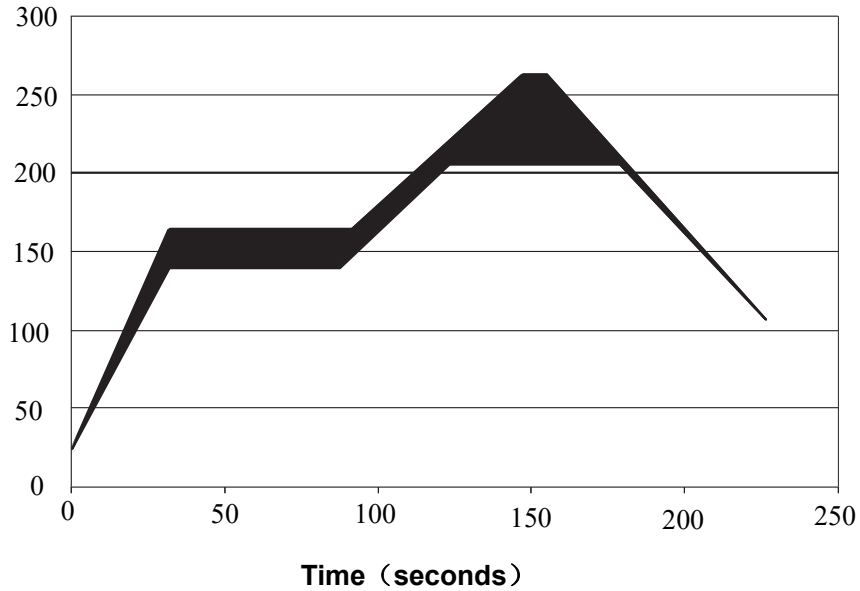


Figure 2: 8kV Contact ESD pulse clamping per IEC61000-4-2

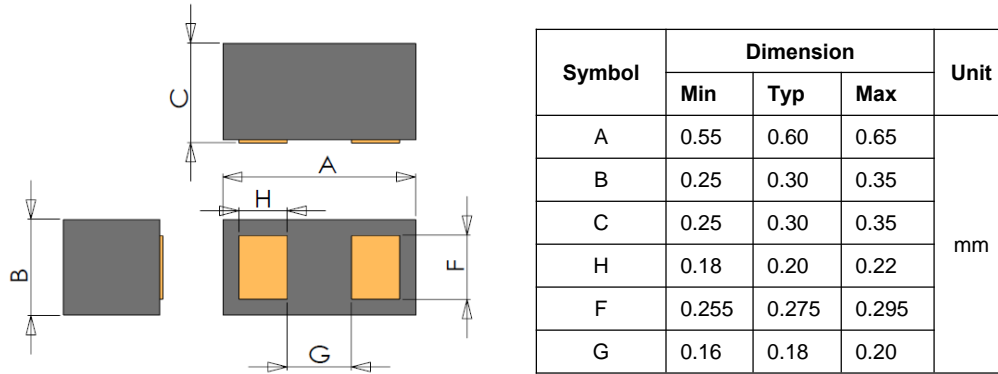


Solder Reflow Recommendations

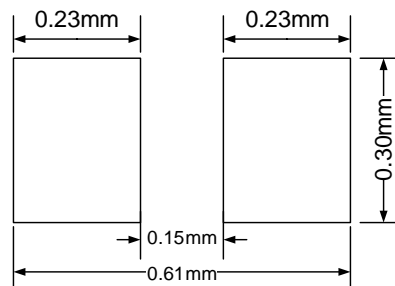
Temperatures (°C)



Outline Drawing



Land Pattern *



* This Land Pattern is For Reference Purposes Only

Ordering Information

Part number	Package	Type	Reel size	MOQ
PESD0201V05	0201	T/R	7 inch	15k/reel

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[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS](#) [E6327](#) [ESD112-B1-02EL](#) [E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)
[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)
[ESD200-B1-CSP0201](#) [E6327](#) [SM12-7](#) [CEN955](#) [W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)
[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)