

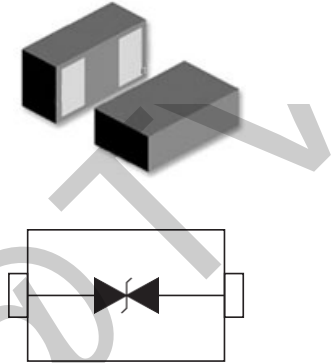
Features

- ESD protection for high speed data lines
- ESD Contact $\pm 8\text{KV}$ typ / $\pm 15\text{KV}$ max
- ESD Air $\pm 15\text{KV}$ typ / $\pm 25\text{KV}$ max
- Extremely low capacitance: 0.05pF (I/O to GND)
- Very low leakage current: $0.01\mu\text{A}$ typ
- Bi-directional ESD protection
- Lead free, RoHS compliant

Mechanical Data

- Package: 0402
- Net Weight: 0.44 mg
- Carrier: Tape & Reel, 10,000pcs/reel

0402



Schematic Diagram

Applications

- HDMI / DVI / Display Port
- USB 2.0 / USB 3.0
- Gigabit Ethernet
- IEEE 1394 Interface

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

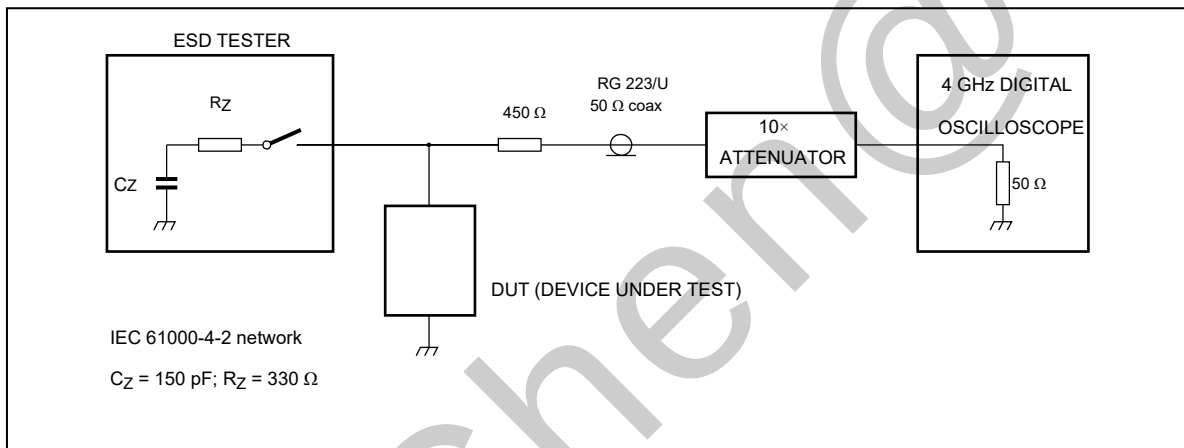
Parameter	Symbol	Value	Unit
Rated Voltage	VR	24	V
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	$\pm 15/\pm 25$	kV
Junction Temperature	T _J	-55 to +125	°C
Operation temperature	T _{OP}	-55 to +125	°C
Lead temperature	T _L	260	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics

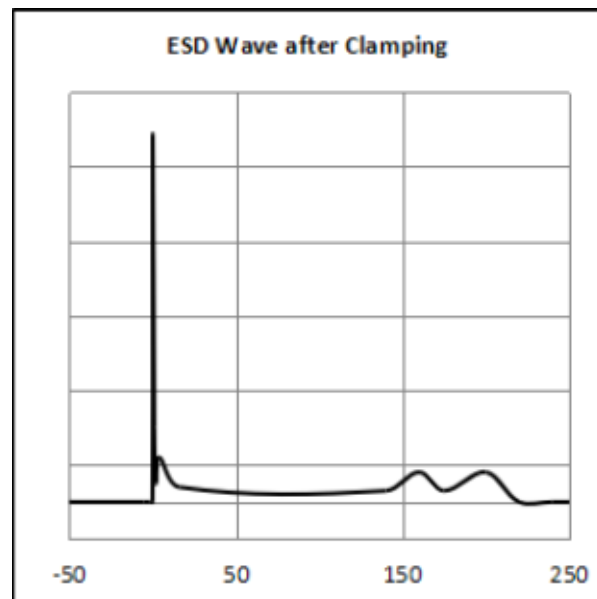
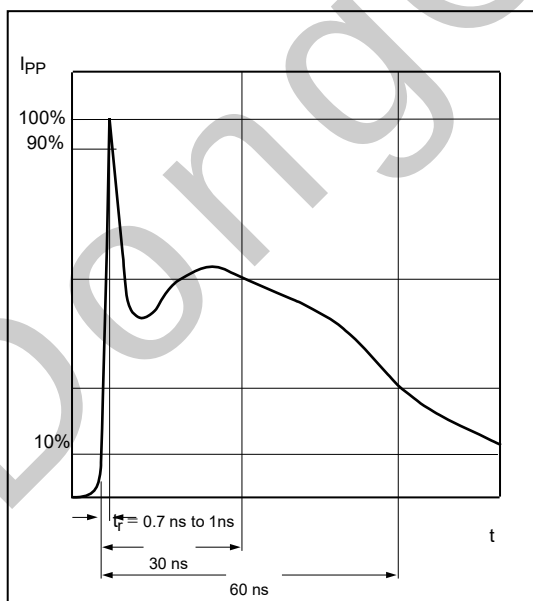
($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Rated Voltage	VR		-	-	24	V
Trigger Voltage	VT	IEC 8KV Contact	-	300	-	V
Leakage Current	IL	VR = 24V	-	0.01	0.10	μA
Clamping Voltage	VC	IEC 8KV Contact	-	35	-	V
Capacitance	CP	VR=0V, f=1MHz	-	0.05	-	pF

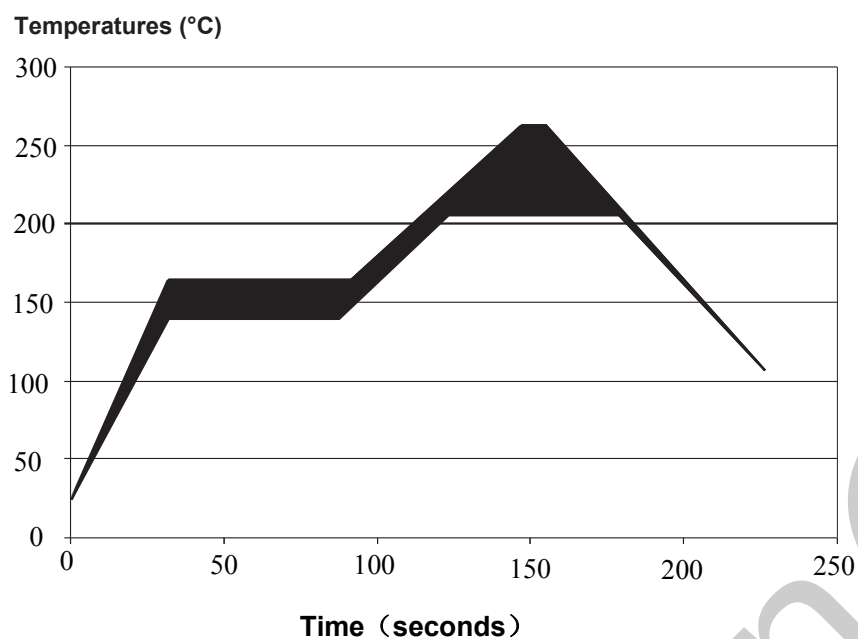
ESD Clamping Test



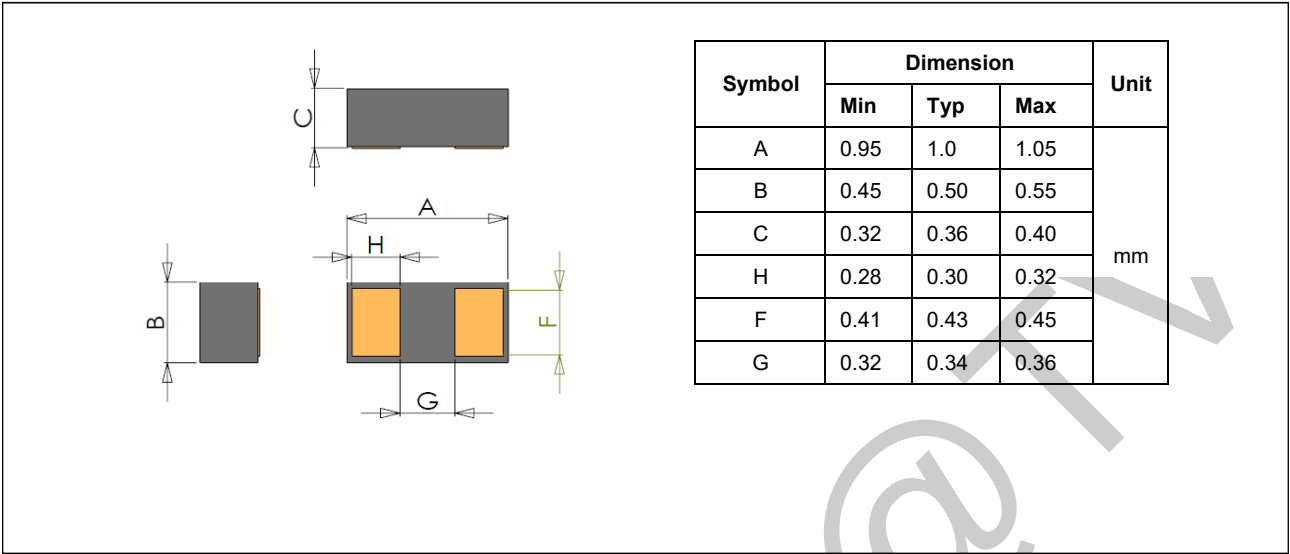
ESD Clamping Test Waveforms



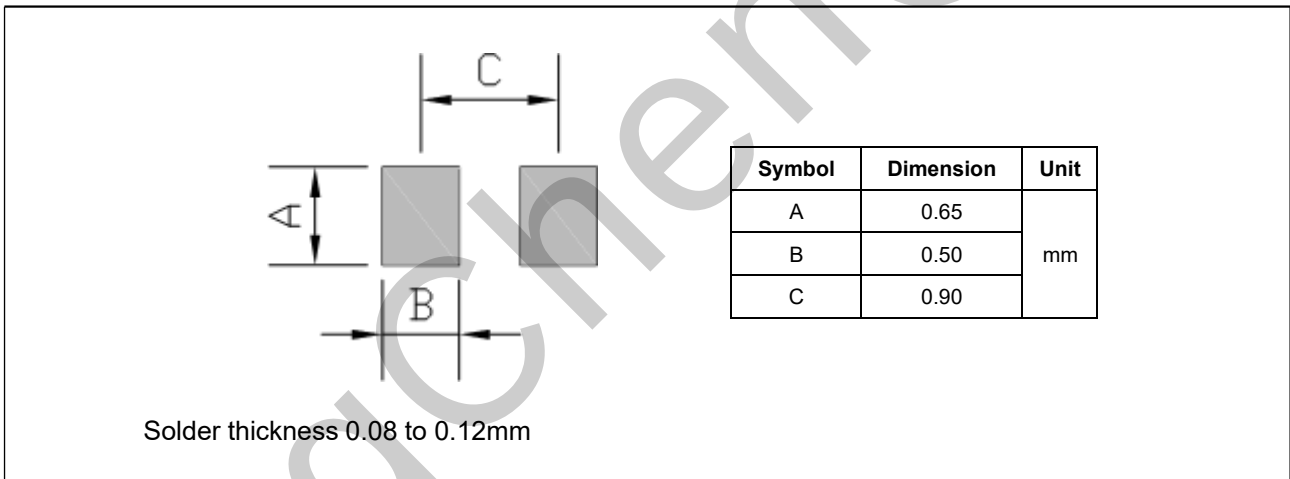
Solder Reflow Recommendations



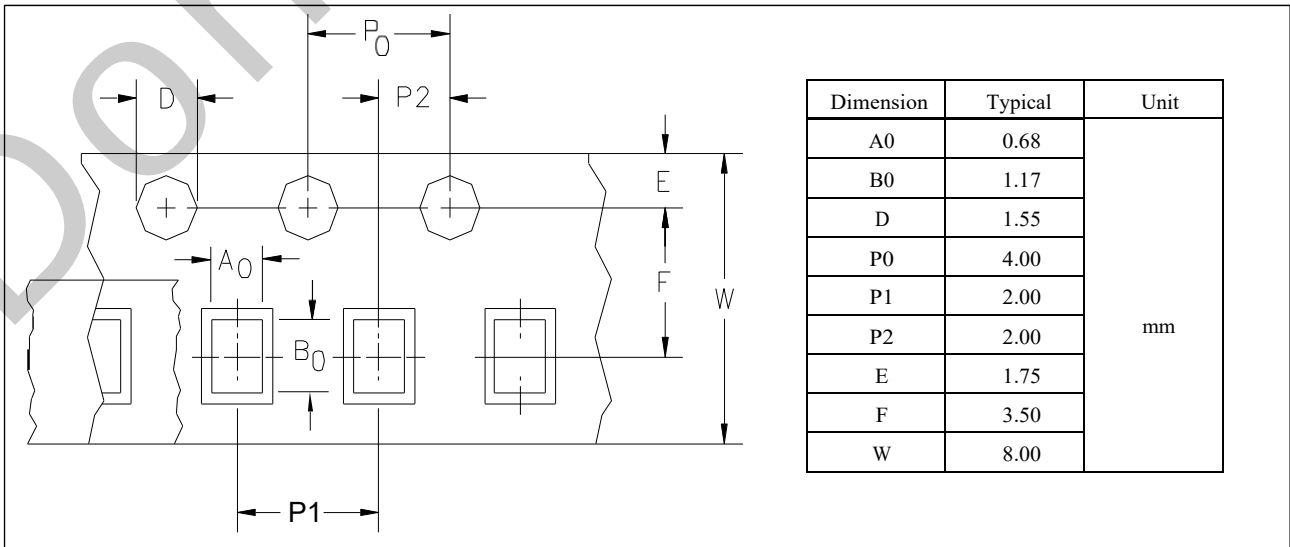
Package Dimensions



Pad Dimensions



Package Information



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