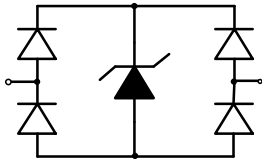


1- Line, Bi-directional, Ultra-low Capacitance Transient Voltage Suppressor



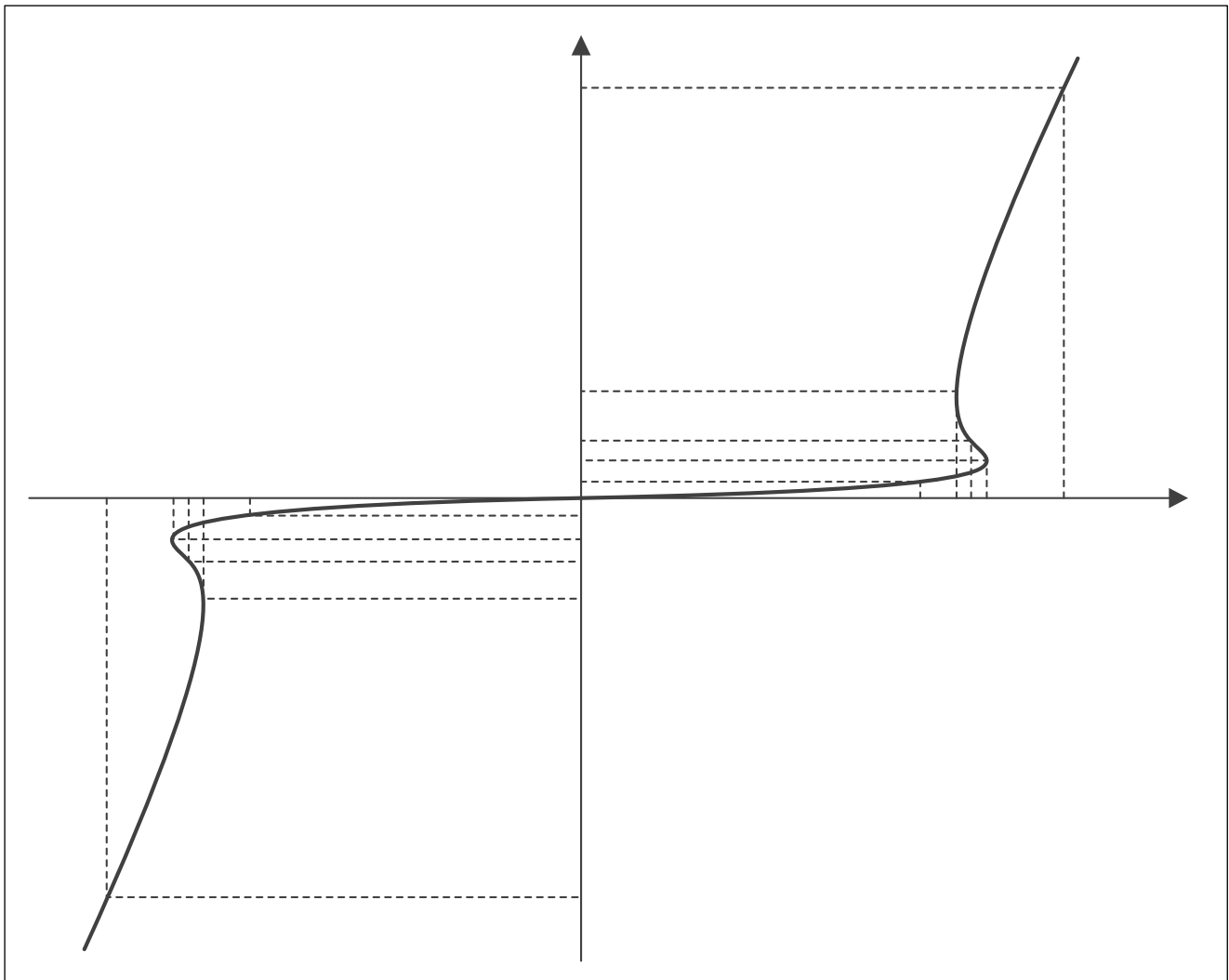
Features

- " Stand-off voltage: 5V Max
- " Transient protection for each line according to IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact)
- IEC61000-4-5(surge): 7A (8/20 s)
- " Ultra-low capacitance: $C_J = 0.8\text{pF}$ typ.
- " Low leakage current: $I_R < 1\text{nA}$ typ.
- " Low clamping voltage: $V_{CL} = 13.0\text{V}$ typ. @ $I_{PP} = 16\text{A}$ (TLP)
- " Solid-state silicon technology

Mechanical Data

- " Package : SOD323
- " Terminals : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- " Polarity: Cathode line denotes the cathode end
- " Marking: 5TD

Definitions of electrical characteristics



ESDSLC5V0D3BS

Maximum Ratings

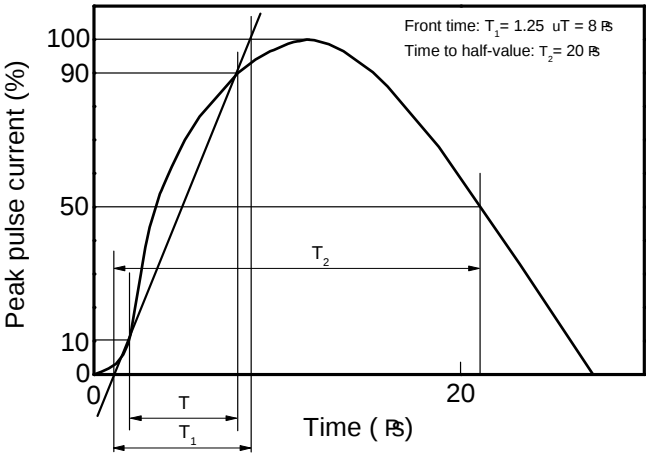
PARAMETER	SYMBOL	LIMITS	UNIT
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Peak pulse power ($t_p = 8/20 \text{ s}$)

vCharacteristics (Typical)

820 Is waveform per IEC61000-4-5

Contact discharge current waveform per IEC61000-4-2



Clamping voltage vs. Peak pulse current

Capacitance vs. Reverse voltage

Non repetitive peak pulse power vs. Pulse time

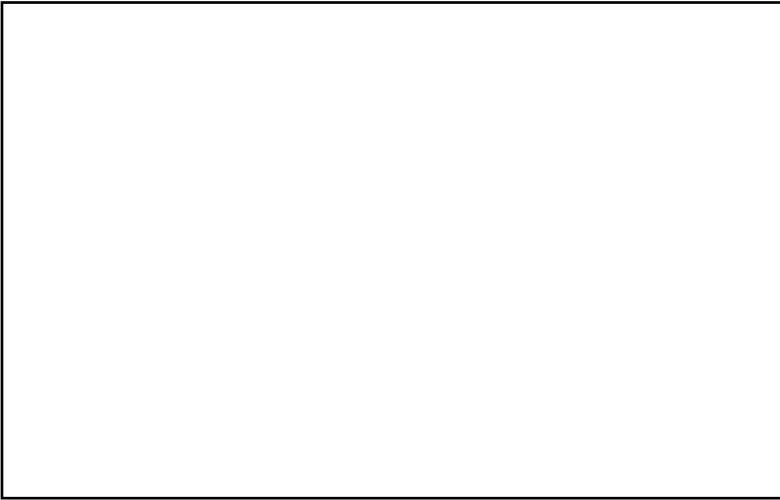
Power derating vs. Ambient temperature

ESDSLC5V0D3BS

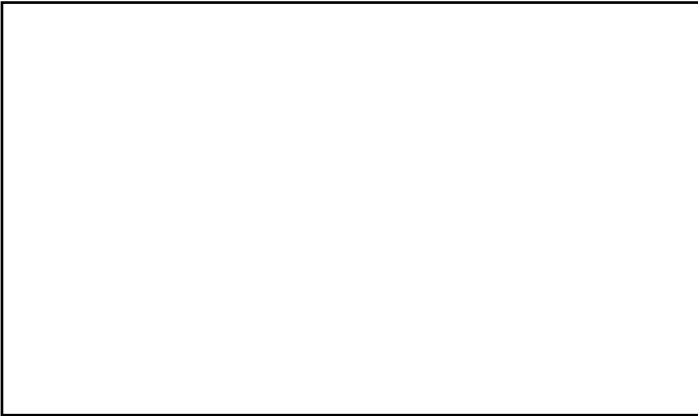
ESDclamping

ESDclamping

vOutline Dimensions



vSoldering Footprint



Unit :Inches

Disclaimer

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