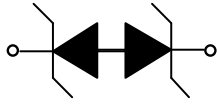


1-Line, Bi-directional, Transient Voltage Suppressor



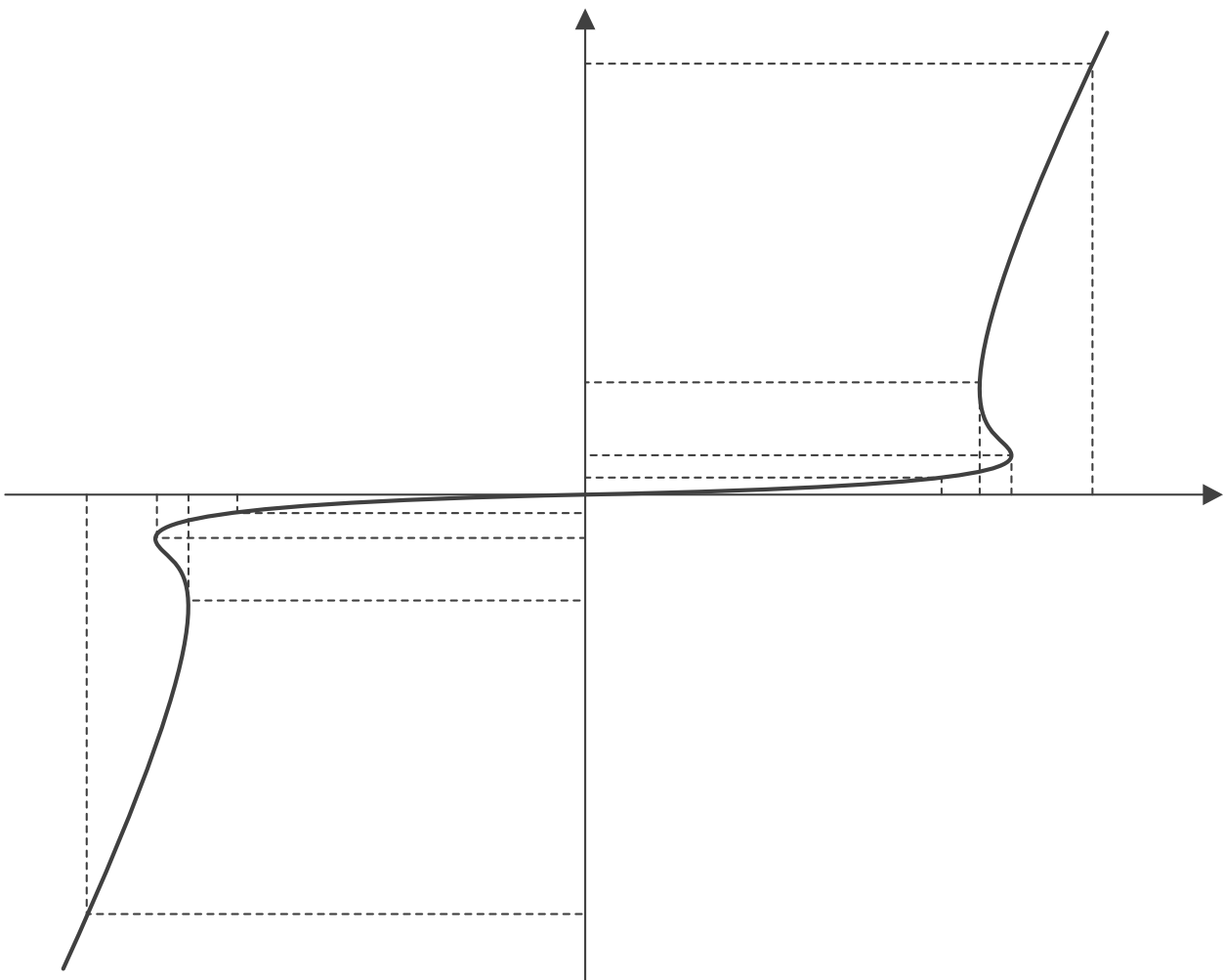
Features

- Stand-off voltage: $\pm 5.5\text{V}$ Max
- Transient protection for each line according to IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact)
- IEC61000-4-4 (EFT): 40A (5/50ns)
- IEC61000-4-5(surge): 6A (8/20 μs)
- Ultra-low capacitance: $C_J = 10\text{pF}$ typ
- Low leakage current
- Low clamping voltage: $V_{CL} = 11.0\text{V}$ typ. @ $I_{PP} = 16\text{A}$ (TLP)
- Solid-state silicon technology

Mechanical Data

- Package : DFN0603-2L
- Terminals : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: No marking on bi-directional types
- Marking: A6

Definitions of electrical characteristics



ESD5V5LZB

Maximum Ratings

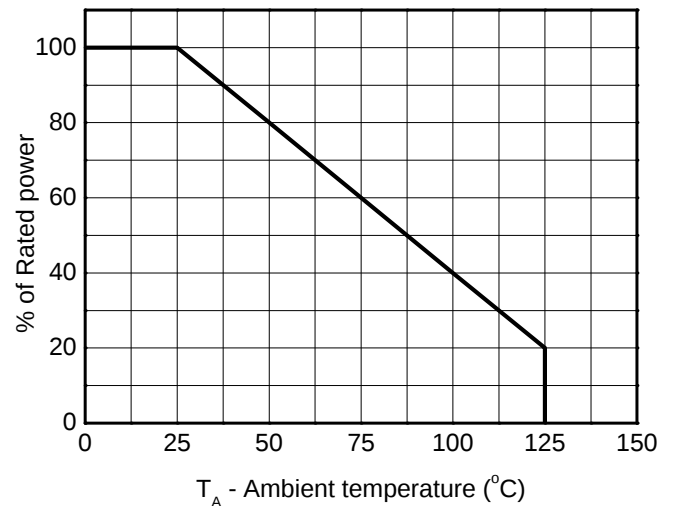
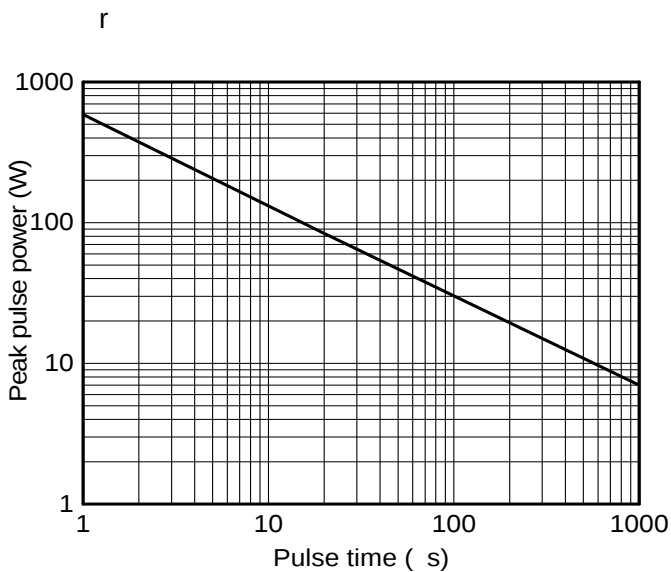
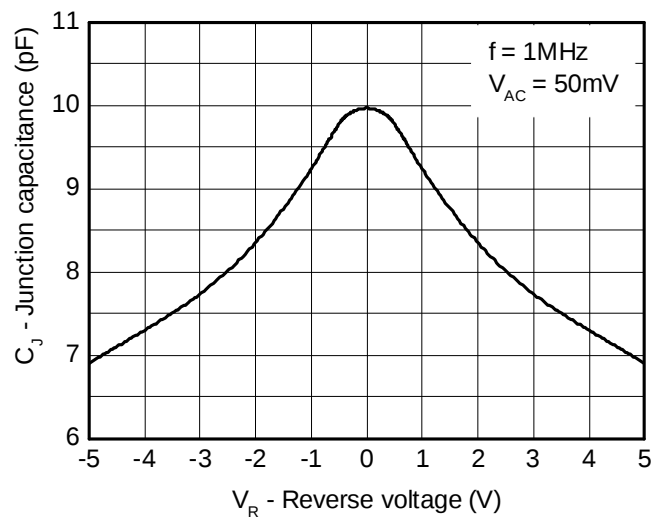
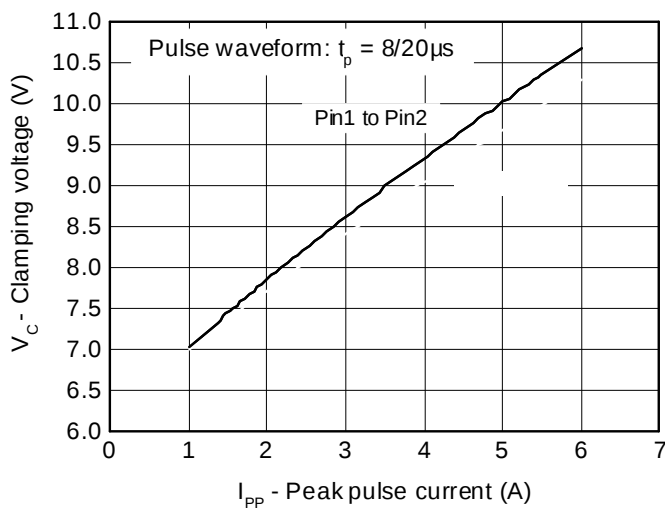
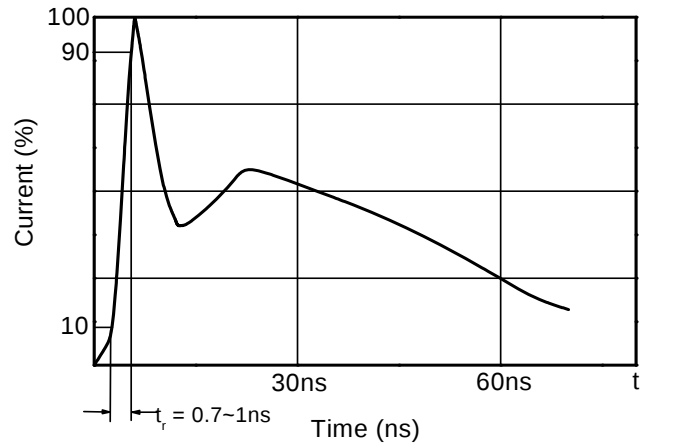
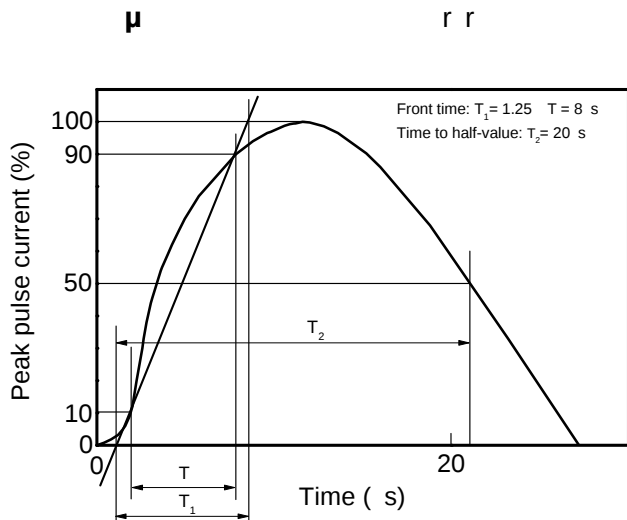
PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power ($t_p = 8/20 \text{ s}$)	P_{pk}	72	W
Peak pulse current ($t_p = 8/20 \text{ s}$)	I_{pp}	6	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	KV
Junction temperature	T_J	125	$^{\circ}\text{C}$
Operating temperature	T_{OP}	-40~85	$^{\circ}\text{C}$
Storage temperature	T_{STG}	-55~150	$^{\circ}\text{C}$

Electrical Characteristics $T_a=25$ Unless otherwise specified A

PARAMETER	Symbol	UNIT	Conditions	
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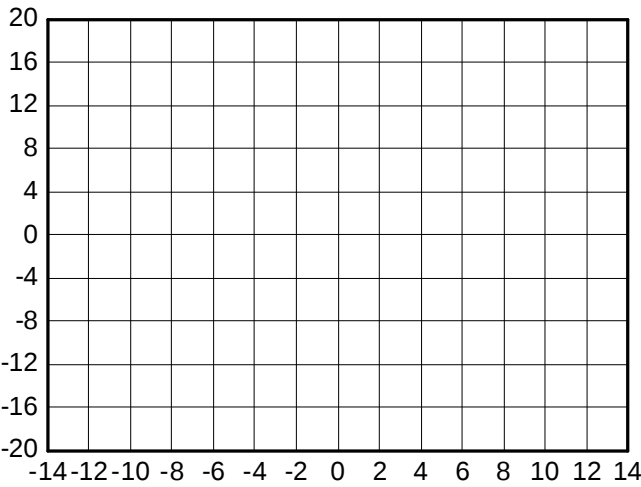
ESD5V5LZB

vCharacteristics (Typical)

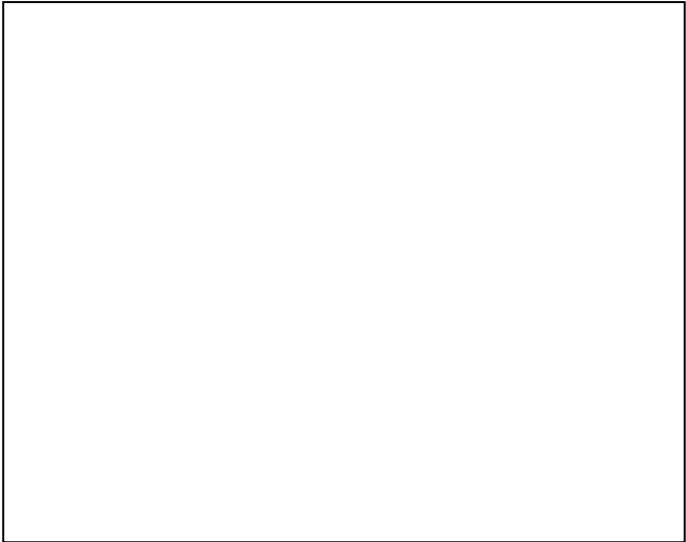


ESD5V5LZB

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vOutline Dimensions



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