2-Line, Bi-directional, Transient Voltage Suppressor

Features

- ” Ultra small package
- ” Stand-off voltage: ±5V Max
- ” Transient protection for each line according to
  - IEC61000-4-2(ESD): ±30kV (contact)
  - IEC61000-4-4 (EFT): 40A (5/50ns)
  - IEC61000-4-5(surge): 7A (8/20 s)
- ” Ultra-low capacitance: CJ = 10pF typ
- ” Low leakage current
- ” Low clamping voltage
- ” RoHS Compliant

Applications

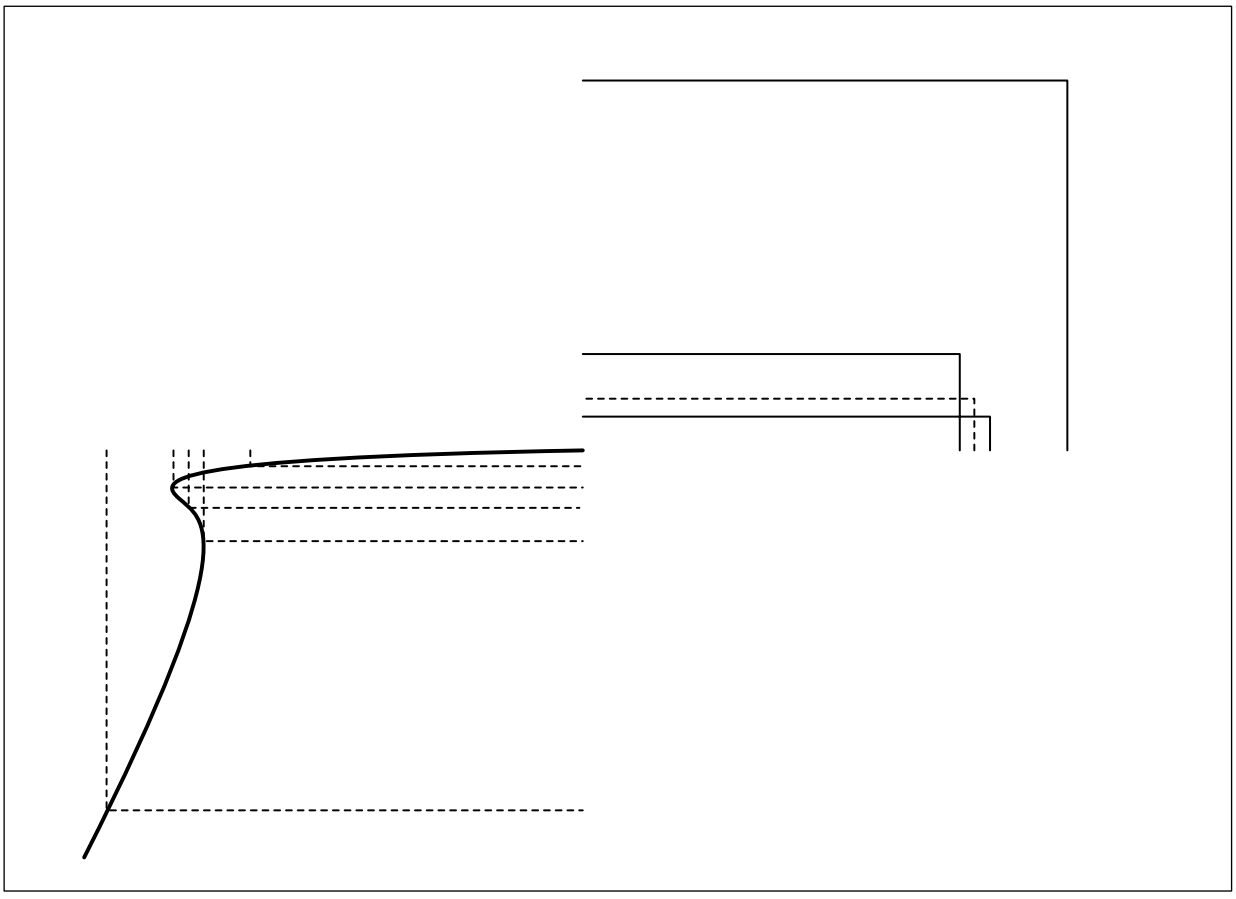
- ” Cellular handsets
- ” Tablets
- ” Laptops
- ” Other portable devices
- ” Network communication devices

DFN1006-3L

Mechanical Characteristics

- ” Package: DFN1006-3L
- ” Case Material: “Green” Molding Compound.
- ” Moisture Sensitivity: Level 3 per J-STD-020
- ” Marking Information: See Below

v

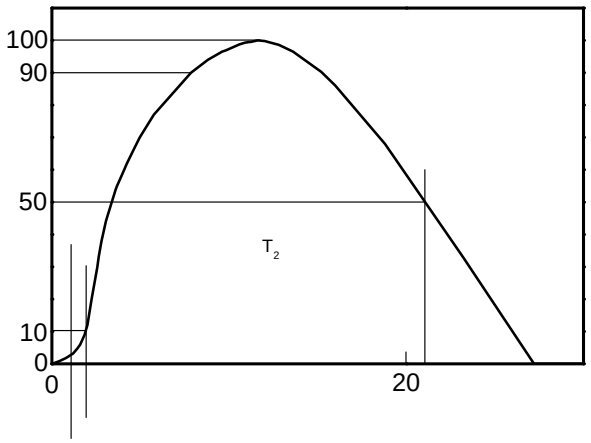


vAbsolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power (t_p = 8/20 s)	P_{pk}	77	W
Peak pulse current (t_p = 8/20 s)	I_{PP}	7	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV

v Typical Performance Characteristics (Ta=25 unless otherwise Specified)

8/20μs 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

ESD clamping
(+8kV contact discharge per IEC61000-4-2)

ESD clamping
(-8kV contact discharge per IEC61000-4-2)

TLP Measurement

v Outline Dimensions

■ Recommend land pattern (Unit:mm)

Notes:
This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with