

# ESD5V0LTB

## 2-Line, Bi-directional, Transient Voltage Suppressor

### Features

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

### Applications

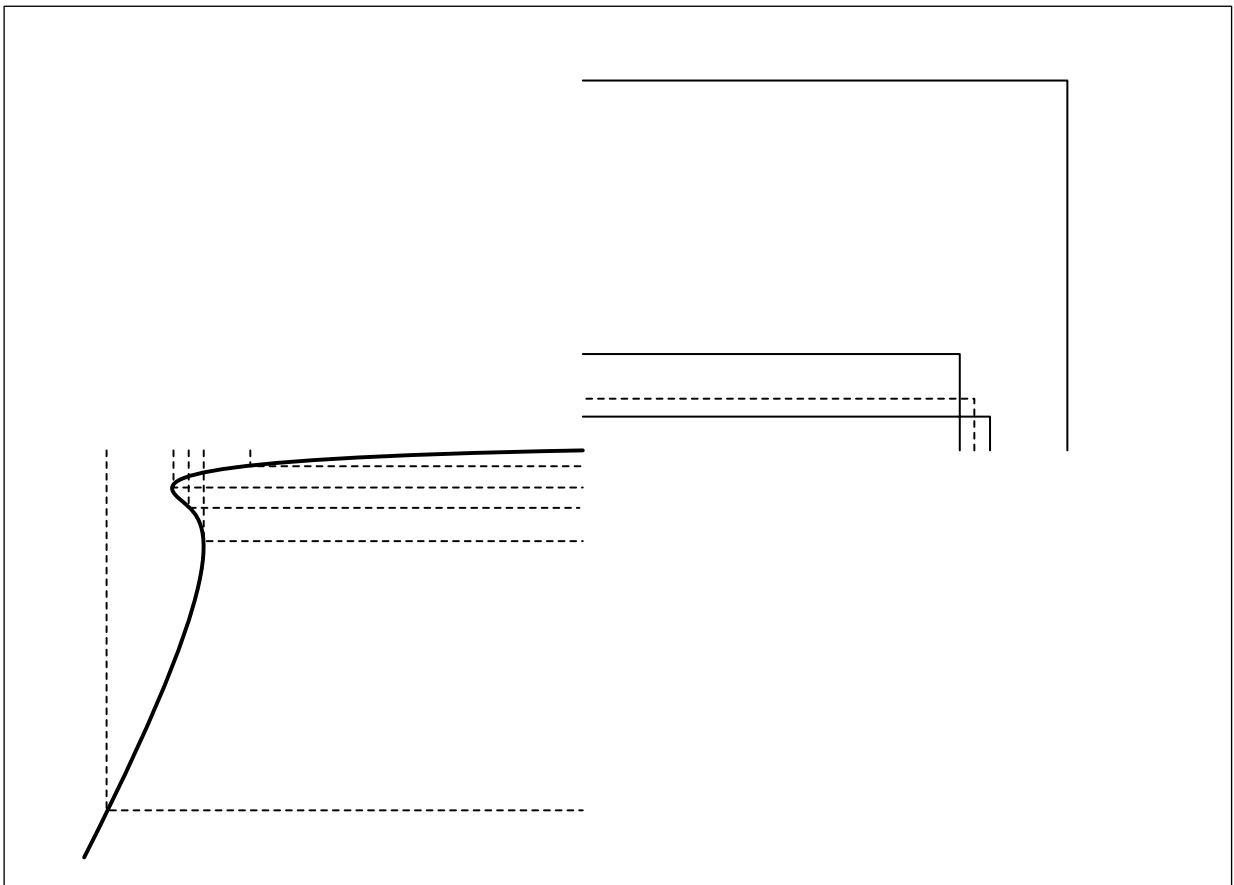
- " Cellular handsets
- " Tablets
- " Laptops
- " Other portable devices
- " Network communication devices

DFN1006L

### Mechanical Characteristics

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

v



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

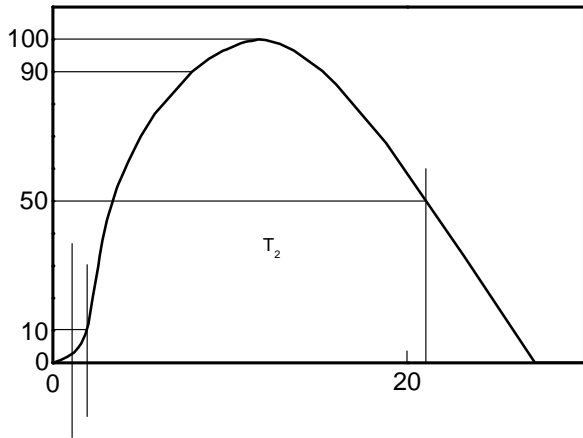
PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power ( $t_p = 8/20$ s)	$P_{pk}$	77	W
Peak pulse current ( $t_p = 8/20$ s)	$I_{PP}$	7	A
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	±30	KV

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

820µs 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. Pulsetime

Power derating vs. Ambient temperature

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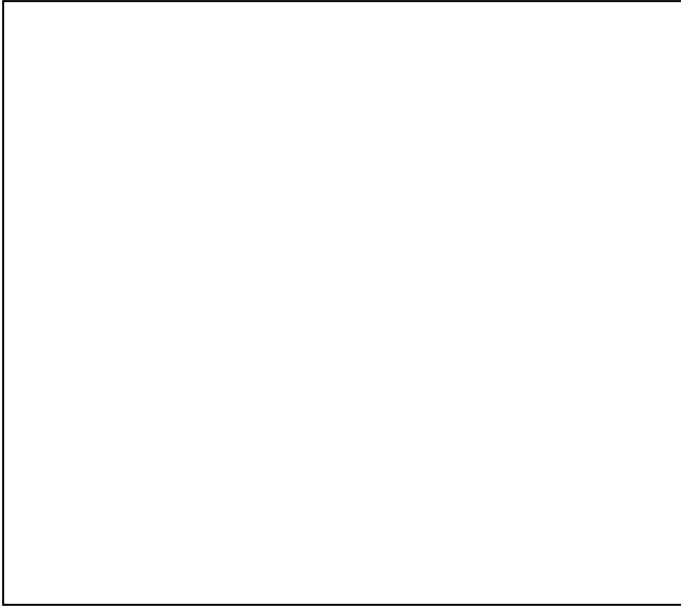
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ESDclamping  
(+8kVcontact dischargeper IEC61000-4-2)

ESDclamping  
( 8kVcontact dischargeper IEC61000-4-2)

TLPMeasurement

## vOutline 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

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## Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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