

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: $CJ = 10pF$ typ
- " Low leakage current
- " Low clamping voltage
- " RoHS Compliant

Applications

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

Mechanical Characteristics

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

v 3. 1.5(w) .Tj 5C.9802 409C.98041.28m <0140>Tj /T Ma08w [(Ma Tw 333Defini)-7.s of electrical charac

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

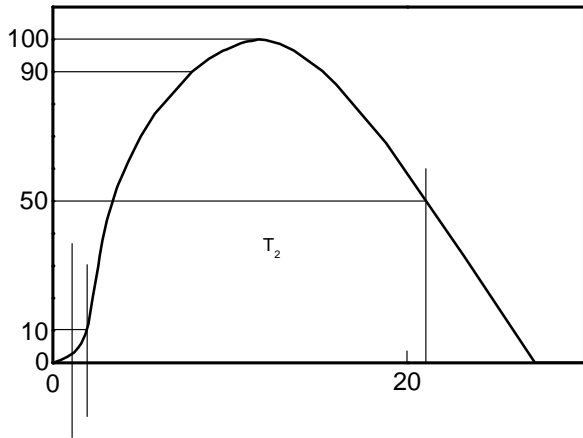
PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power ($t_p = 8/20$ s)	P_{pk}	77	W
Peak pulse current ($t_p = 8/20$ s)	I_{PP}	7	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV

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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

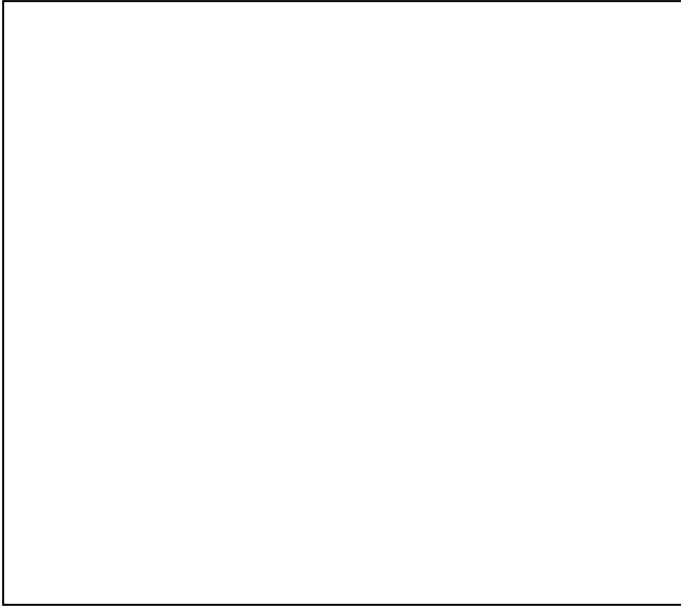
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ESDclamping
(+8kVcontact dischargeper IEC61000-4-2)

ESDclamping
(8kVcontact dischargeper IEC61000-4-2)

TLPMeasurement

vOutline Dimensions



Recommend land pattern (Unit:mm)

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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