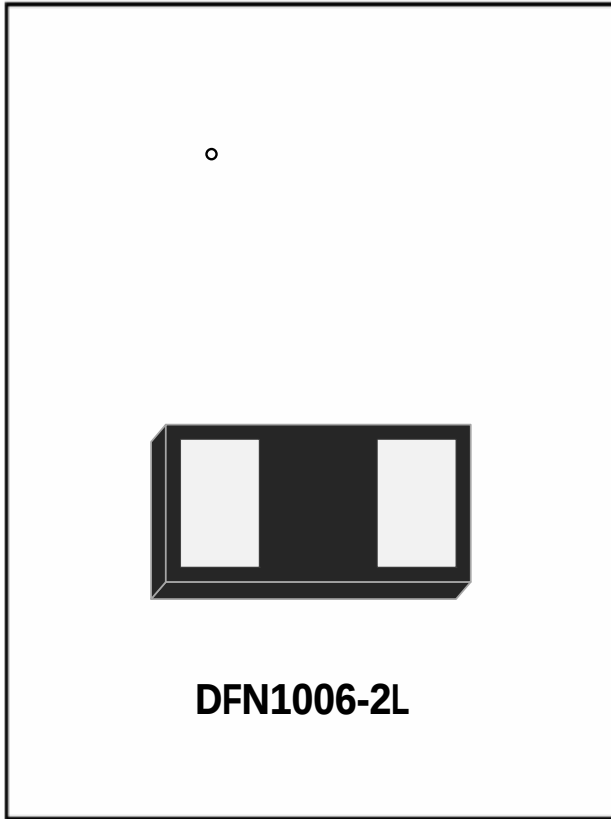


1-Line, Bi-directional, Ultra-low Capacitance Transient Voltage Suppressor



Features

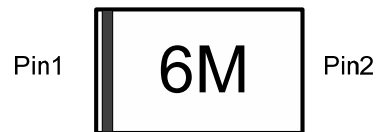
- Stand-off voltage: $\pm 5.5\text{V}$ Max
- Transient protection for each line according to IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact)
IEC61000-4-4 (EFT): 80A (5/50ns)
IEC61000-4-5(surge): 43A (8/20 μs)
- Ultra-low leakage current
- Ultra low clamping voltage
- Low clamping voltage:
 $V_{\text{CL}} = 7.5\text{V}$ typ. @ $I_{\text{PP}} = 16\text{A}$ (TLP)
- RoHS Compliant

Applications

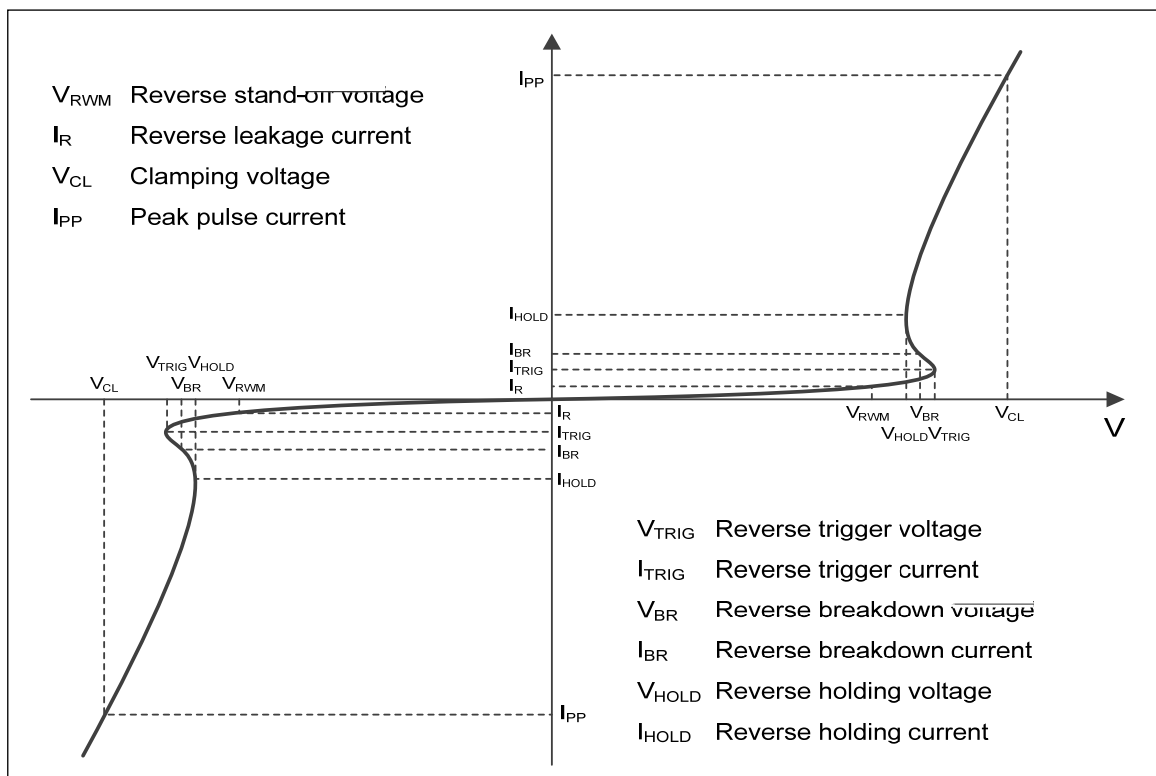
- Battery Line Protection
- Audio Line Protection
- GPIO

Mechanical Data

- Package: DFN1006-2L
- Case Material: "Green" Molding Compound
- Marking Information: See Below



■Definitions of electrical characteristics



ESD5V5LA

PARAMETER		LIMITS	UNIT
20μs)	P _{pk}	520	W
/20μs)	I _{PP}	43	A
00-4-2 air discharge	V _{ESD}	±30	kV
00-4-2 contact discharge		±30	
	T		



■ Characteristics (Typical)

Fig.1 8/20 μ s waveform per IEC61000-4-5

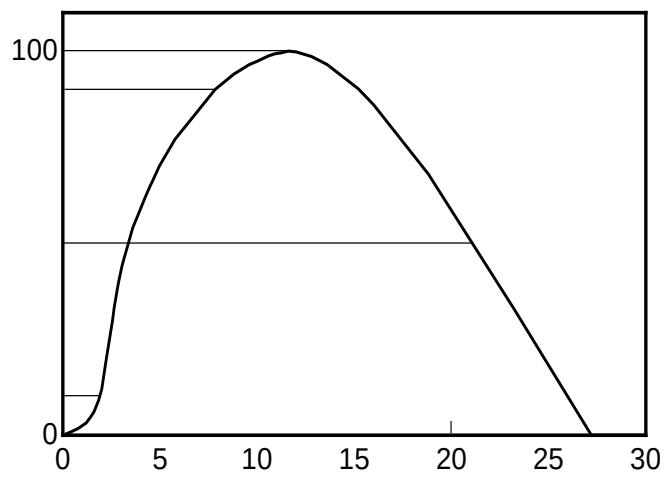


Fig.7 ESD clamping
(+8kV contact discharge per IEC61000-4-2)

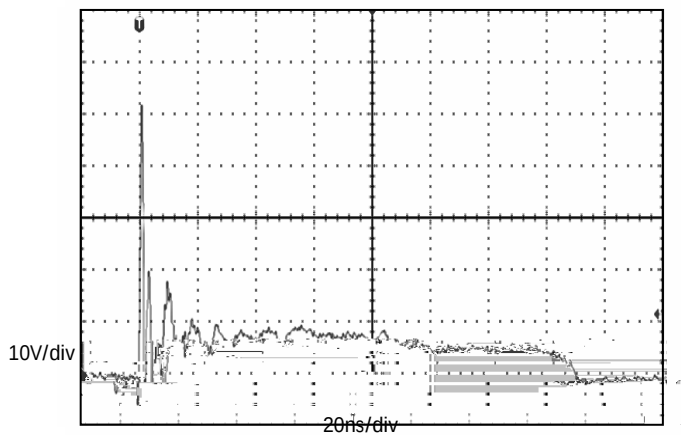


Fig.8 ESD clamping
(-8kV contact discharge per IEC61000-4-2)

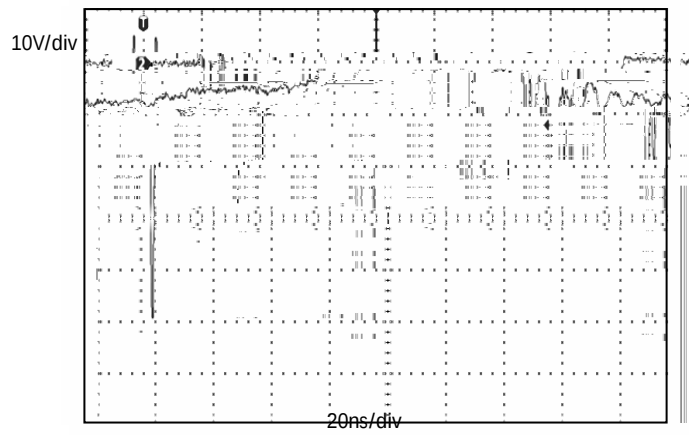
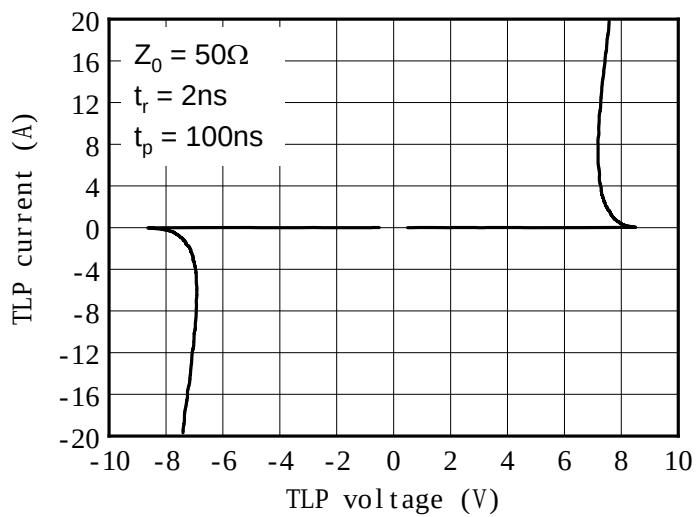
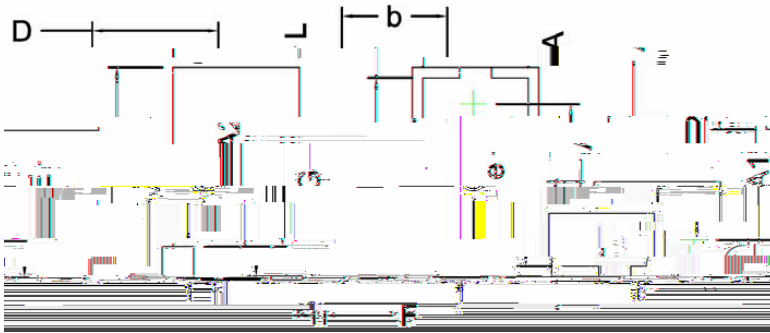


Fig.9 TLP Measurement





■ Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX

■ Recommended PCB Layout

Unit:mm



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