

Desicription

- ◆ This low-power TVS (Transient Voltage Suppressor) is mainly used for signal and power supply to protect the back-stage circuit from ESD(Electrostatic Discharge) and EFT(Electrical Fast Transients) and improve the reliability of the product, because its extremely small package is suitable for various portable devices and mobile electronic devices.

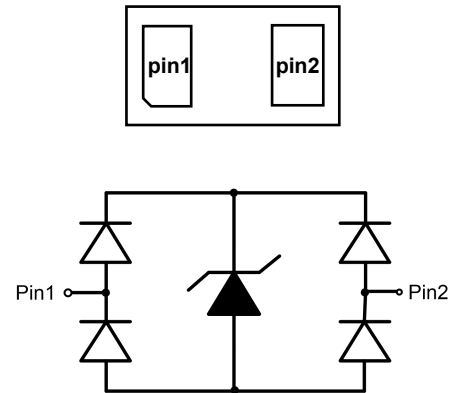


Features

- ◆ IEC61000-4-2(ESD): ± 20 KV Max Air
 ± 15 KV Max Contact
- ◆ IEC61000-4-4(EFT):40A(5/50ns)
- ◆ IEC61000-4-5(Surge): 4.0A(8/20us)
- ◆ Line capacitance:0.5 pF(typical)@1MHz
- ◆ Very low reverse current: $I_R < 0.2\mu A$ (typical)
- ◆ Halogen free ,Lead free and RoHs

Application

- ◆ Cellular phones
- ◆ Portable devices
- ◆ Digital cameras
- ◆ Player
- ◆ Smart home
- ◆ Robot



Circuit diagram

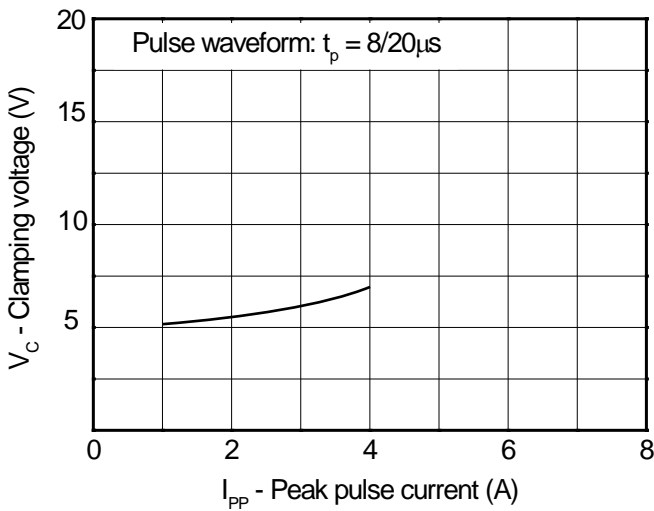
Order information

Model	Marking	Package	shipping
ESD2D005LA	S1	DFN1006-2L	10000/Tape&Reel

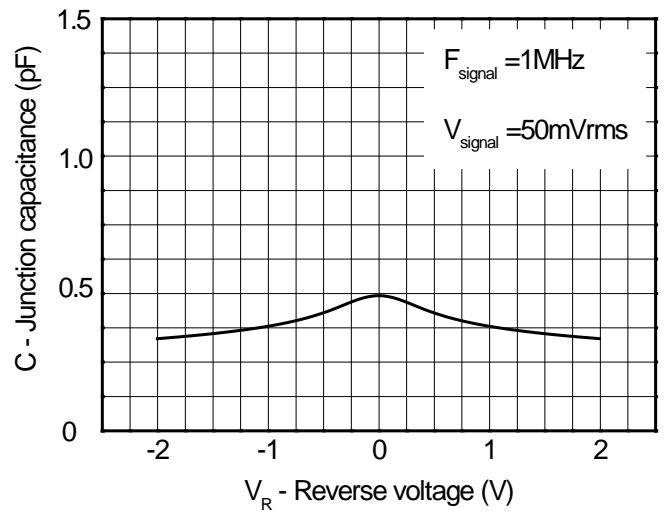
Maximum Rating

Rating	symbol	value	Units
Peak Pulse Current($t_p=8/20\mu s$)	I_{pp}	4.0	A
ESD per IEC61000-4-2(Contact)	V_{ESD}	± 15	KV
ESD per IEC61000-4-2(Air)		± 20	
Operating Temperature	T_J	-40~125	$^{\circ}C$
Storage Temperature	T_{STG}	-55~150	$^{\circ}C$

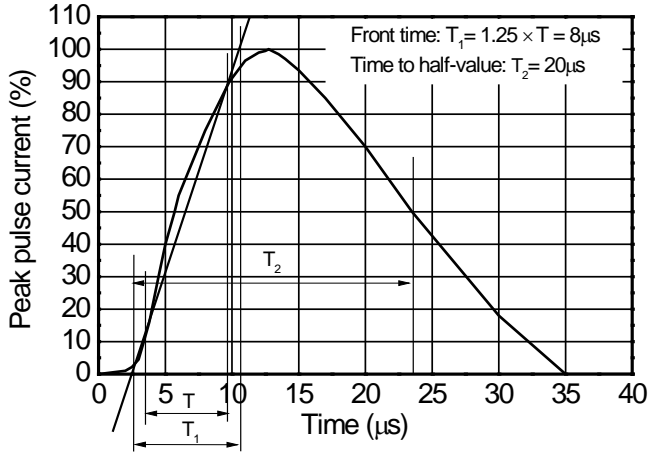
Typical characteristic



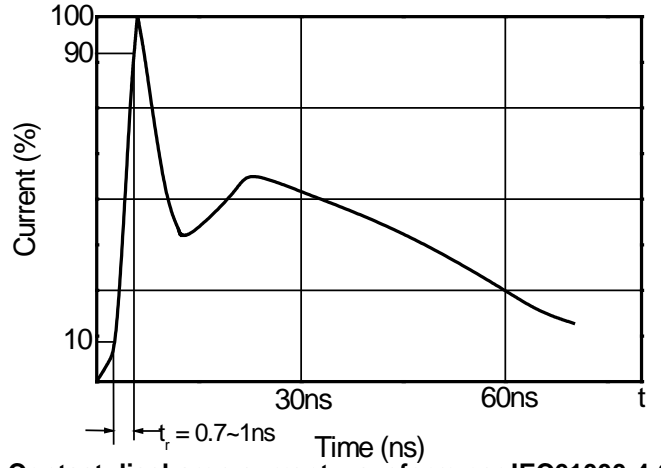
Clamping voltage vs. Peak pulse current



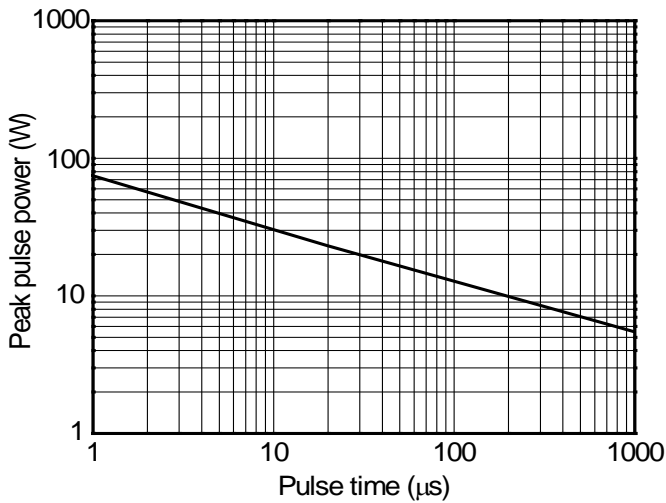
Capacitance vs. Reverse voltage



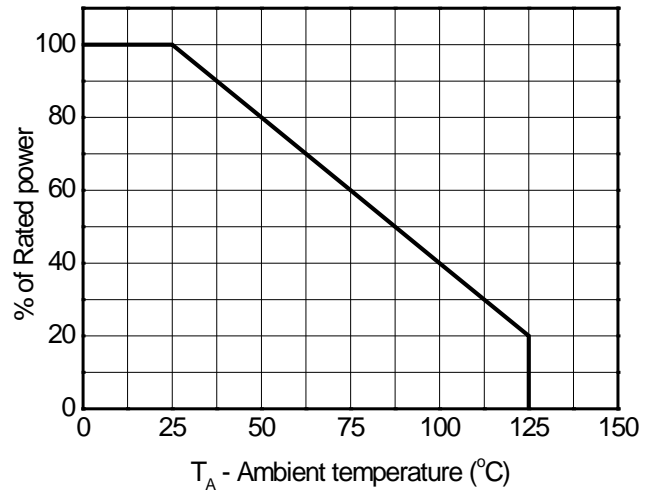
8/20μs waveform per IEC61000-4-5



Contact discharge current waveform per IEC61000-4-2



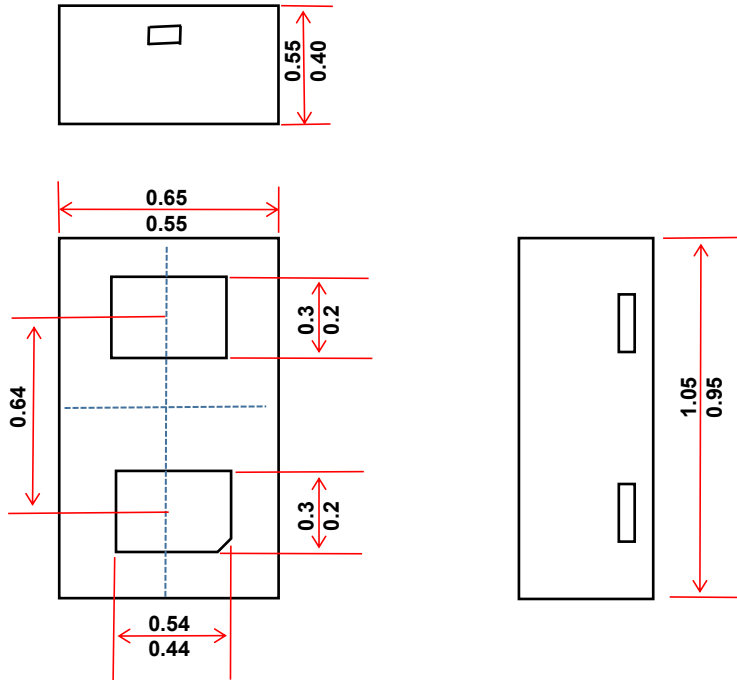
Non-repetitive peak pulse power vs. Pulse time



Power derating vs. Ambient temperature

Dimension outline Unit:mm

DFN1006-2L(SOD882)



Recommended Mounting Pad Layout Unit:mm

