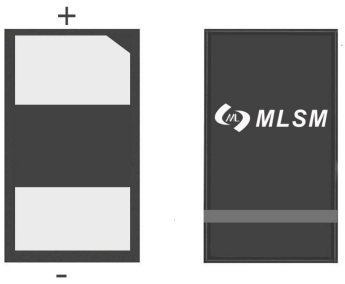
Features

- Fast response time
- Low reverse clamping voltage
- Low leakage current

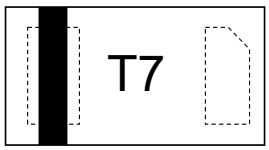
Application

- Computers and peripherals
- High speed data lines
- Audio and video equipment
- Cellular handsets and accessories
- Portable electronics



DFN1006-2L view

Schematic diagram



Marking and pin assignment

Pb-Free RoHS Halogen-Free

Absolute Maximum rating

Over operating free-air temperature range (unless otherwise noted)

Symbol	Parameter		Value	Unit
P_{PP} (2)	Peak Pulse Power		275	W
I_{PP} (2)	Peak Pulse Current		5.0	A
T_L	Lead Solder Temperature − Maximum (10 Second Duration)		260	℃
T_J,T_{stg}	Operation Junction and Storage Temperature Range		-55~+150	℃
V_{ESD} (1)	IEC 61000-4-2 ESD Voltage	Air Model	±20	kV
		Contact Mode	±20	kV
	JESD22-A114-B ESD Voltage	Per Human Body Model	±16	kV
	ESD Voltage	Machine Mode	±0.4	kV

(1).Device stressed with ten non-repetitive ESD pulses.
(2).Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
ESDBL24VA1	DFN1006-2L	T7	10,000	150,000	600,000	7"reel

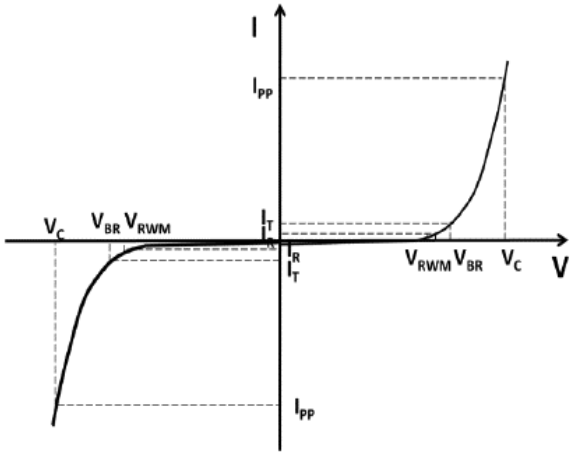
Electrical Characteristics (T_J=25℃ unless otherwise noted)

Device Type	V_{RWM} (Volts)	I_R @ V_{RWM} (μA)	V_{BR} @ I_T (Note 1) (Volts)	V_C @ Max I_{PP+} (Volts)	C @V_R= 0V, f = 1MHz (pF)
	MAX	MAX	MIN	TYP	MAX
ESD36VF1	24.0	0.2	26.7	35	30

(1).Other voltages available upon request.
(2).Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5

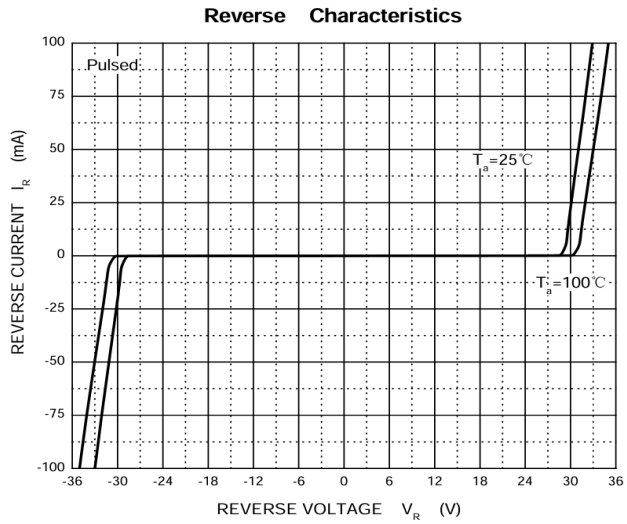
ELECTRICAL PARAMETER

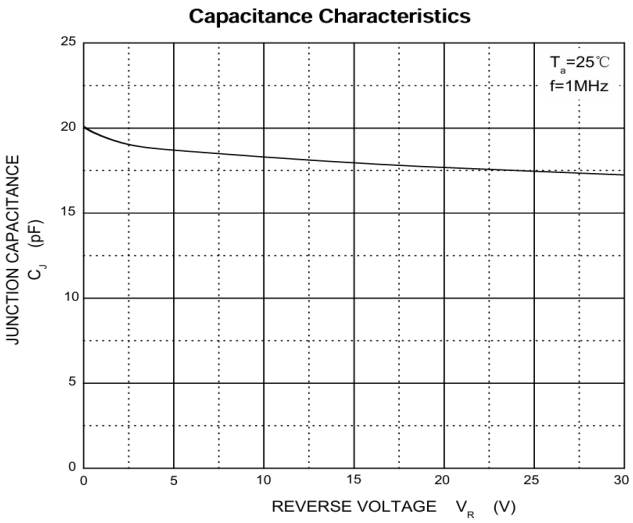
Symbol	Parameter
V_{RWM}	Reverse Standoff Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}

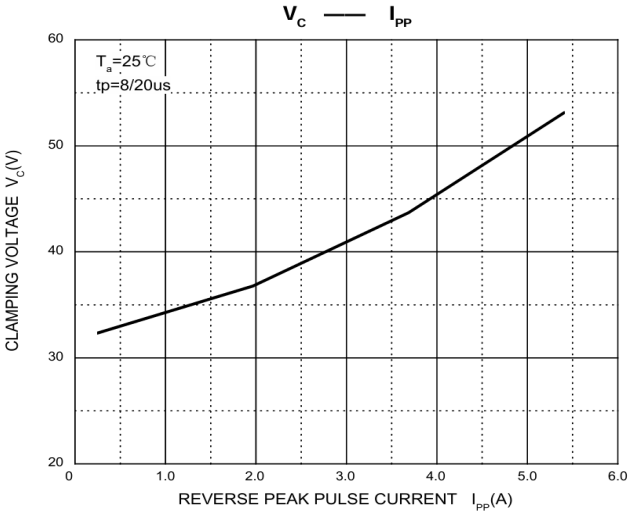


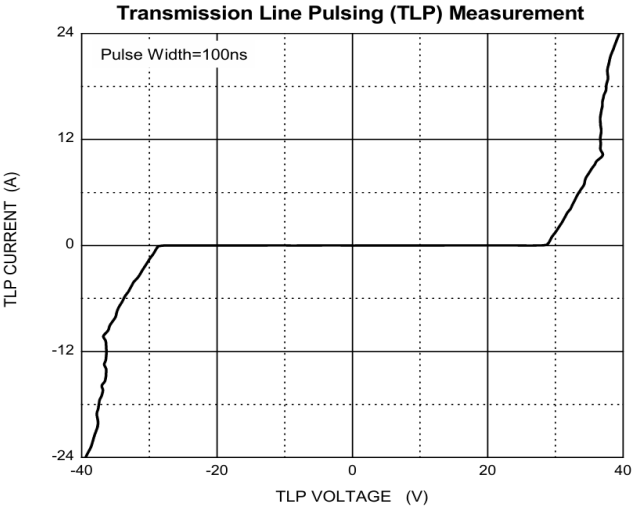
V-I characteristics for a uni-directional TVS

Typical Operating Characteristics

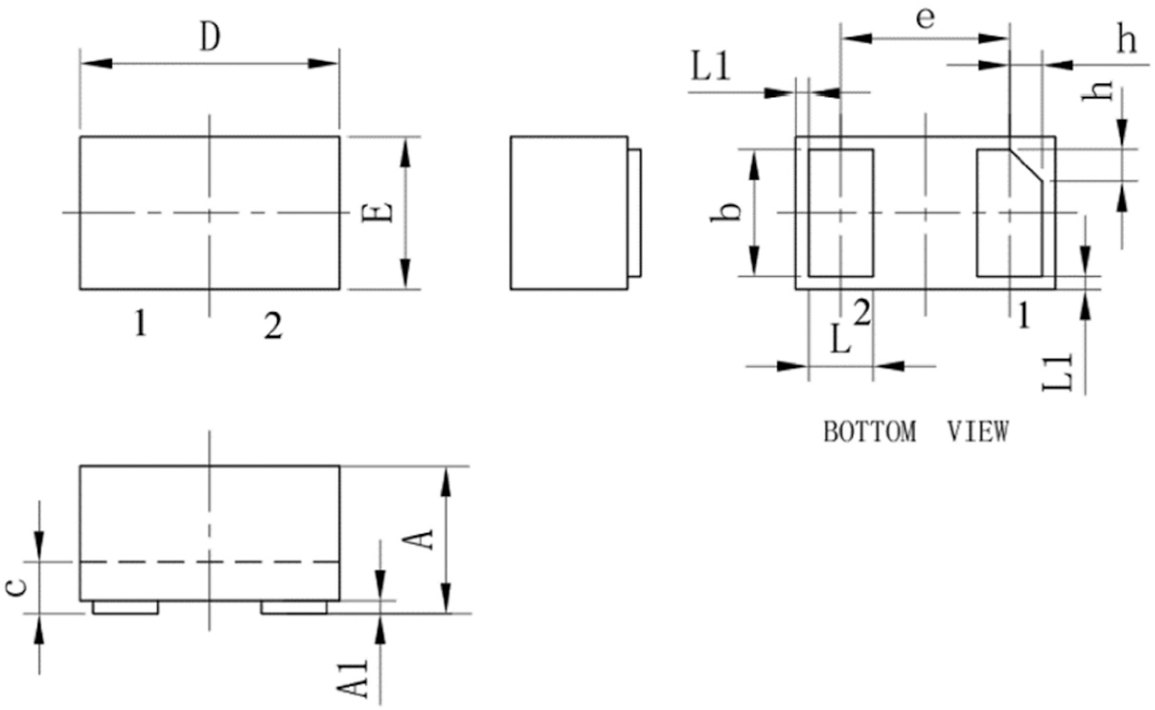








DFN1006-2L Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.450	0.550	0.018	0.022
A1	0.000	0.050	0.000	0.002
b	0.450	0.550	0.018	0.022
c	0.120	0.180	0.005	0.007
D	0.950	1.050	0.038	0.042
e	0.65BSC		0.026REF	
E	0.550	0.650	0.022	0.026
L	0.200	0.300	0.008	0.012
L1	0.05REF		0.005REF	
h	0.070	0.170	0.003	0.007