Features

- 2-pin lead-less package
- Junction capacitance (Max value: 25pF)
- Peak Pulse Current (8/20μs): 6A
- IEC61000-4-2 (ESD) ±20kV (air), ±15kV (contact)
- Low clamping voltage
- Low leakage current
- Working voltages:18V
- RoHS Compliant

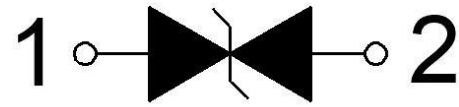
Mechanical Characteristics

- Package: DFN1006-2L
- Lead Finish:Matte Tin
- Case Material: “Green” Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Tape Reel :10000pcs

Applications

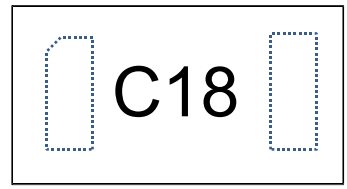
- Cellular Handsets and Accessories
- Notebooks and Handhelds, Audio Players, Peripherals
- Personal Digital Assistants, Portable Instrumentation
- Keypads, Side Keys, LCD Displays

Appearance & Symbol



Bi-directional

Marking Information



Absolute Maximum Ratings (T=25ºC, RH=45%-75%, unless otherwise noted)

Parameters	Symbol	Value	Unit
Peak Pulse Power (tp=8/20μs waveform)	P_{PP}	350	W
Peak Pulse Current (8/20μs)	I_{PP}	6	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	±20 ±15	KV
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

Electrical Characteristics (T=25ºC, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				18	V
Reverse Breakdown Voltage	V_{BR}	I_R = 1mA	19.8		23.5	V
Reverse Leakage Current	I_R	V_R = 18V			0.2	uA
Clamping voltage	V_C	I_{PP} = 1A,T_P=8/20us			30	V
Clamping voltage	V_C	I_{PP} =6A,T_P=8/20us			50	V
Junction capacitance	C_J	V_R =0V,f =1MHz			25	pF

Typical Characteristics

FIG1：Power rating derating curve

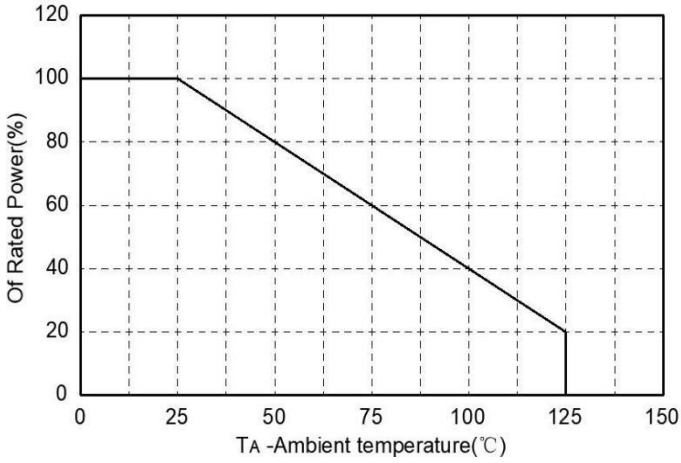


FIG2： pulse Waveform

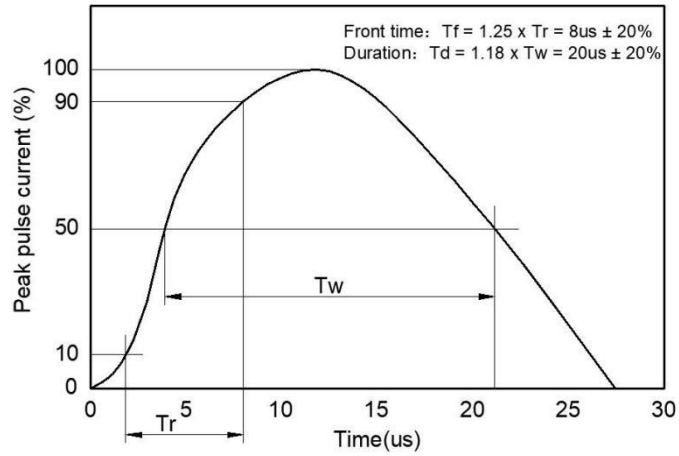


FIG3：Capacitance between terminals characteristics

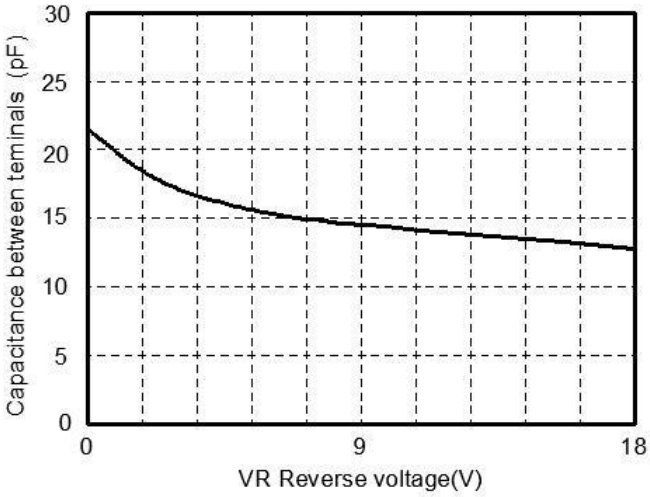
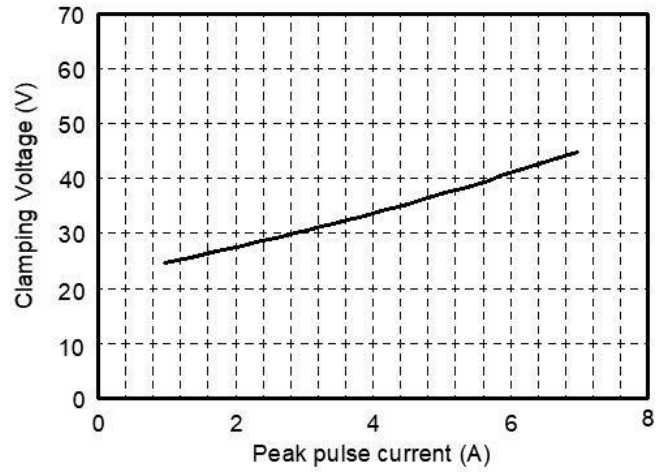
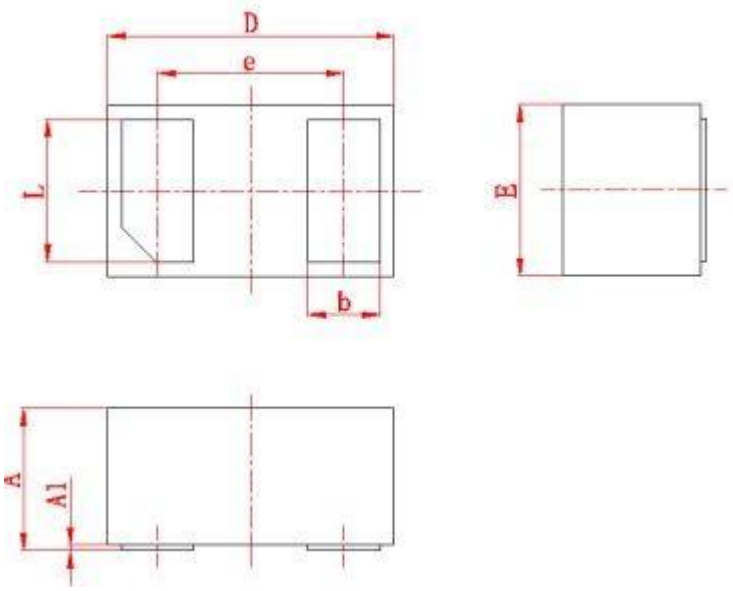


FIG4: Clamping Voltage vs. Peak Pulse Current

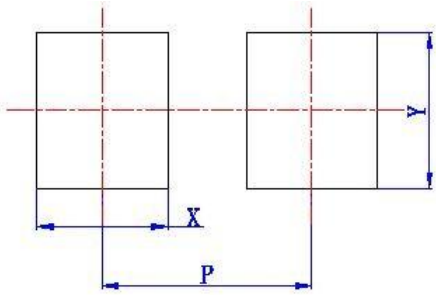


Package mechanical data



Symbol	Dimension in Millimeters	
	min	max
A	0.4	0.5
A1	0	0.05
D	0.9	1.1
E	0.55	0.65
e	(0.65)	
b	0.2	0.3
L	0.34	0.55

Suggested Land Pattern



Symbol	Dimension in Millimeters
	typ
X	(0.5)
Y	(0.7)
P	(0.8)