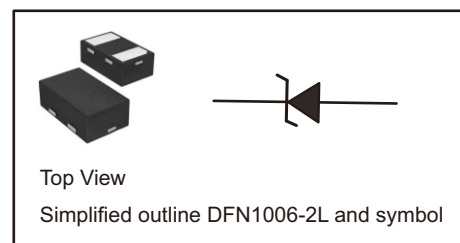


Transient Voltage Suppressors for ESD Protection

FEATURES

- Stand-off voltage: 12.0V Max.
- Transient protection for each line according to
IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact) $\pm 30\text{kV}$ (air)
IEC61000-4-5(Lightning): 14A (8/20 μs)
- Low leakage current

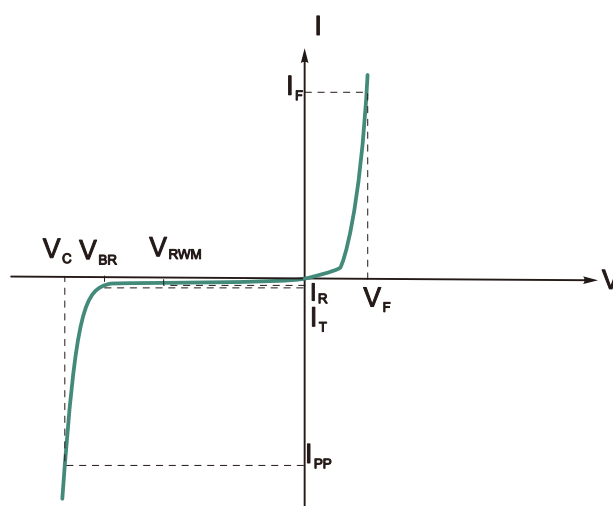


Applications

- Computers and peripherals;
- Audio and video equipment;
- Communication systems;
- Portable electronics.

Electronics Parameter

Parameter	Symbol
Maximum Reverse Peak Pulse Current	I_{PP}
Clamping Voltage @ I_{PP}	V_C
Peak Reverse Working Voltage	V_{RWM}
Reverse Leakage Current @ V_{RWM}	I_R
Breakdown Voltage @ I_T	V_{BR}
Test Current	I_T
Forward Current	I_F
Forward Voltage @ I_F	V_F



MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

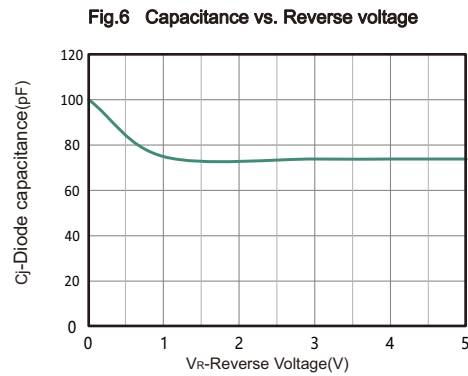
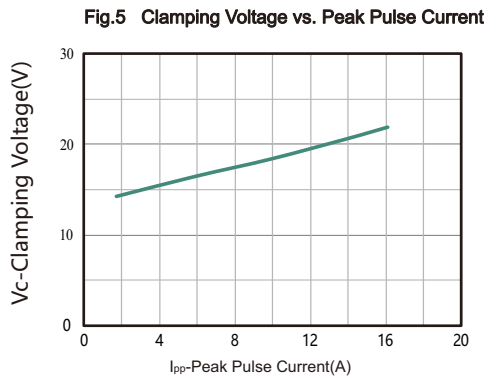
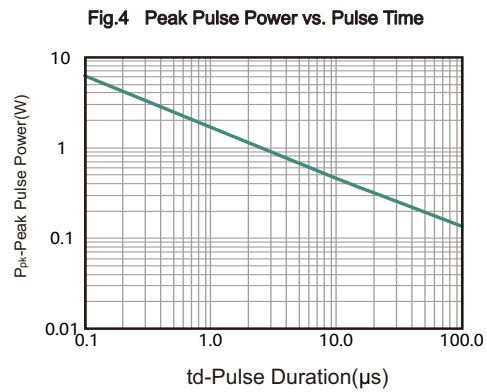
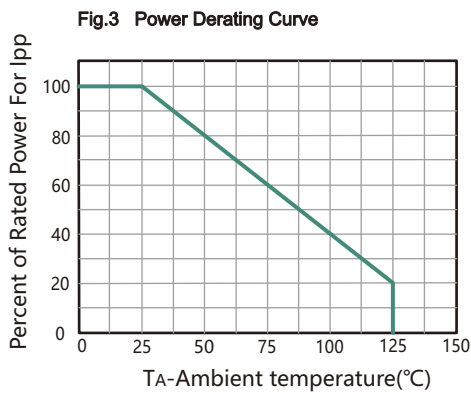
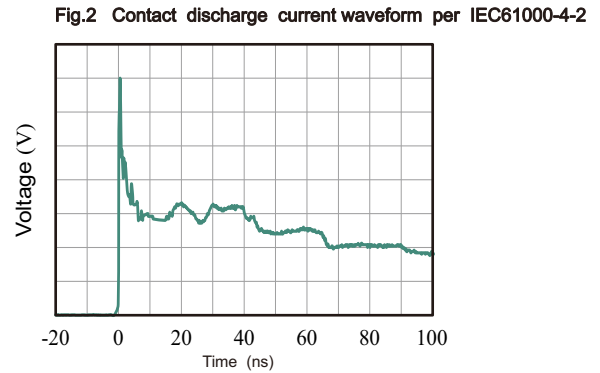
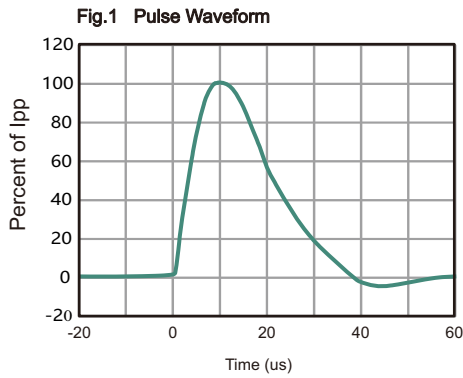
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μS)	Ppk	320	W
Peak Pulse Current	Ipp	14	A
ESD per IEC 61000-4-2(Air)	VESD	±30	KV
ESD per IEC 61000-4-2(Contact)		±30	
Operating Temperature Range	TJ	-55~+125	°C
Storage Temperature Range	Tstg	-55~+150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse Stand-off Voltage	VRWM				12	V
Breakdown Voltage	VBR	IT=1mA	13.5	14.2	16	V
Reverse Leakage Current	IR	V=VRWM, Ta=25°C			1.0	μA
Clamping Voltage	VC	IPP=10A, tp=8/20μs		17.6		V
		IPP=14A, tp=8/20μs		20.0	23.0	
Junction Capacitance	Cj	VR=0V, f=1MHz		80	100	pF

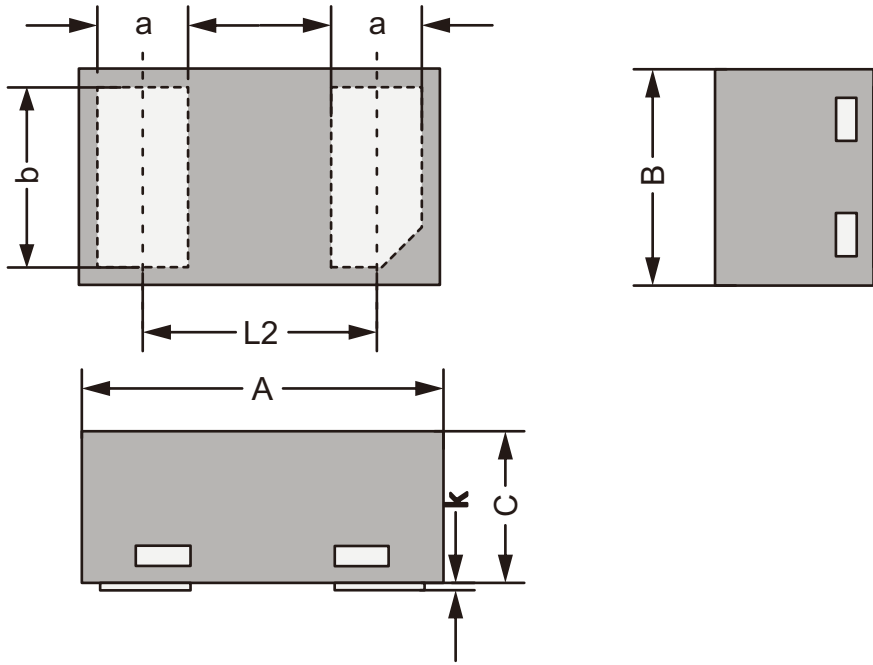


Typical Characteristics





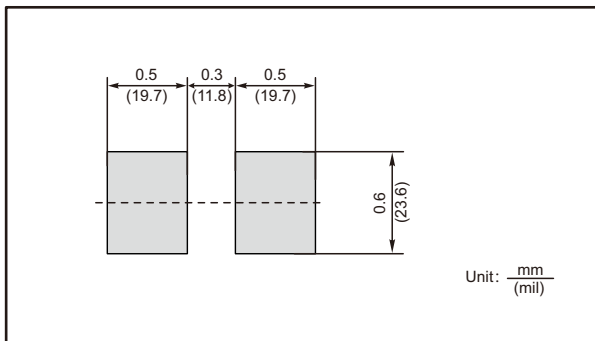
DFN1006-2L Package Outline Dimensions



DFN1006-2L mechanical data

UNIT		A	B	C	L2	a	b	k
mm	max	1.05	0.65	0.55	0.65 REF	0.29	0.54	0.03
	min	0.95	0.55	0.45		0.21	0.46	0.00
mil	max	41.34	25.59	21.65	25.59 REF	11.42	21.26	1.18
	min	37.40	21.65	17.72		8.27	18.11	0.00

The recommended mounting pad size



Marking

Type number	Marking code
ESD12V0DSA	12F



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