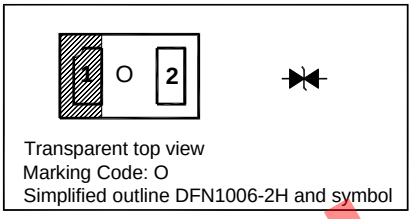
ESDB0511P

Transient Voltage Suppressors

for ESD Protection

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode



Transparent top view
Marking Code: O
Simplified outline DFN1006-2H and symbol

Features

- Low Clamping Voltage
- Low Leakage current
- Protects one I/O or power line
- Bi-direction high reliability

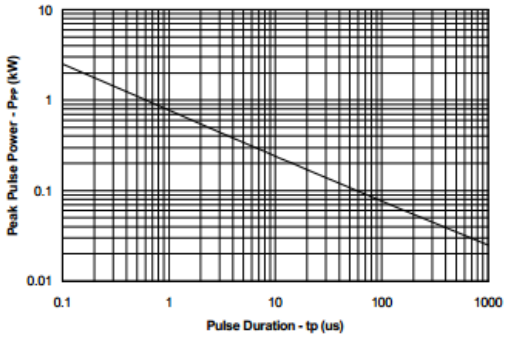
Absolute Maximum Ratings (T_a = 25℃)

Parameter		Symbol	Value	Unit
IEC61000-4-2 (ESD)	Air Contact	V_{ESD}	±15 ± 8	KV
Peak Pulse Current (tp = 8/20 us)		I_{PP}	12	A
Peak Pulse Power (tp = 8/20 us)		P_{pk}	170	W
Junction Temperature		T_j	- 55 to + 125	℃
Storage Temperature Range		T_{stg}	- 55 to + 150	℃

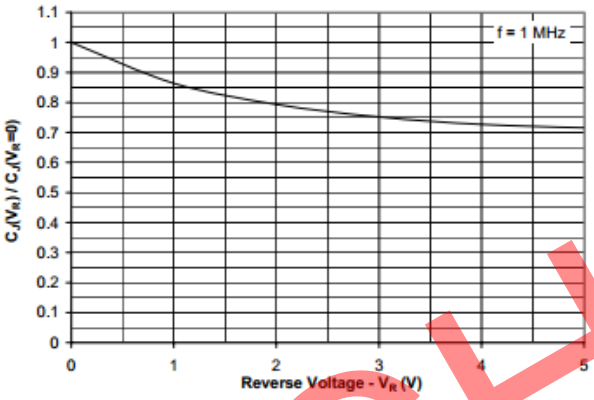
Characteristics at T_a = 25℃

Type	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage			Clamping Voltage	Reverse Peak Pulse Current	Capacitance		
	V_{RWM}	I_R at V_{RWM}	V_{BR}		at I_T	V_C at I_{PP}	I_{PP}	C_j	at f	at V_R
	Max. (V)	Max. (μA)	Min. (V)	Max. (V)	(mA)	Max. (V)	(A)	Max. (pF)	(MHz)	(V)
ESDB0511P	5	1	6	10	1	11	1	75	1	0
						14	12			

Non-Repetitive Peak Pulse Power vs. Pulse Time



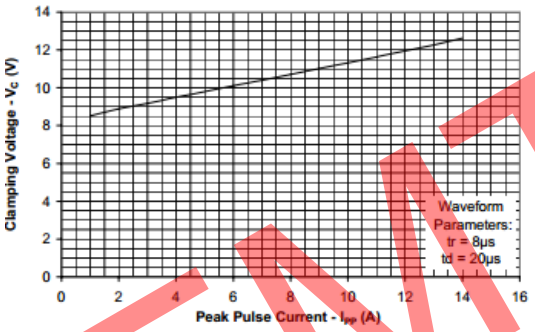
Junction Capacitance vs. Reverse Voltage



Clamping Voltage vs. Peak Pulse Current

Clamping Voltage vs. Peak Pulse Current

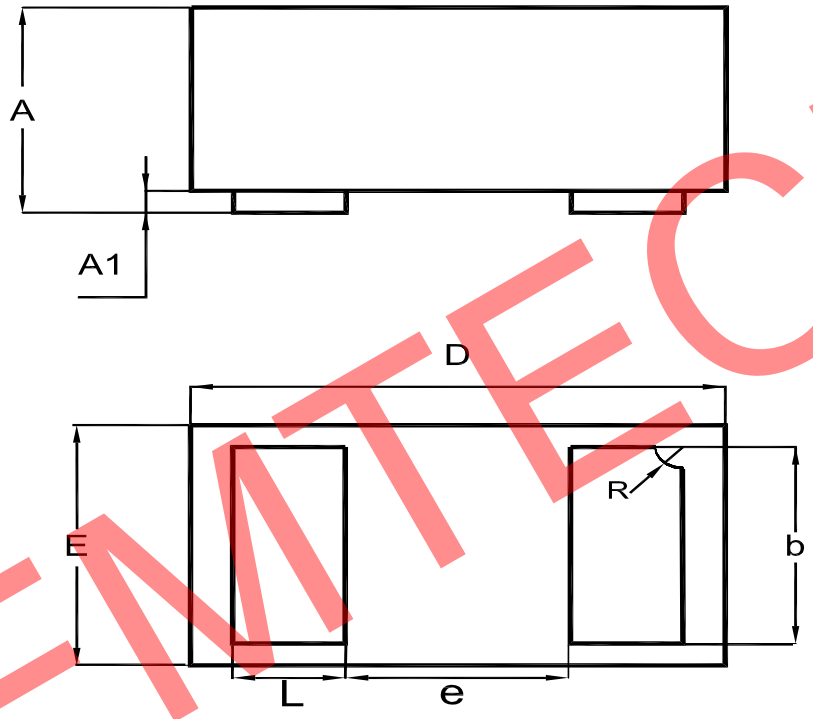
Peak Pulse Current vs. Clamping Voltage



Junction Capacitance vs. Reverse Voltage

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **DFN1006-2H**



UNIT	A	A1	b	D	E	e	L	R
mm	0.51 0.46	0.05 0	0.55 0.45	1.075 0.95	0.675 0.55	0.4	0.3 0.2	0.15 0.05