

ESD9BL0521P

Transient Voltage Suppressors

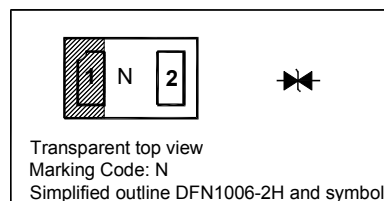
for ESD Protection

Features

- Low Clamping Voltage
- Low operating voltage
- Bi-direction high reliability

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Value	Unit
IEC61000-4-2 (ESD)	Air Contact	V_{ESD}	± 15 ± 8	KV
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)		I_{PP}	4	A
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)		P_{pk}	100	W
Junction Temperature		T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

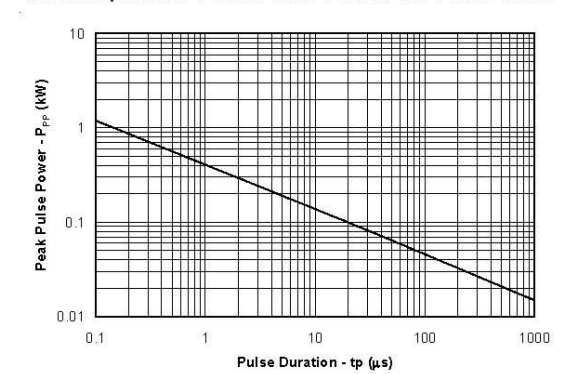
Type	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage			Clamping Voltage	Reverse Peak Pulse Current	Capacitance		
	V_{RWM}	I_{R} at V_{RWM}	V_{BR}		at I_{T}	V_{C} at $\text{Max. } I_{\text{PP}}$	I_{PP}	C_j	at f	at V_{R}
	Max. (V)	Max. (μA)	Min. (V)	Max. (V)	(mA)	Max. (V)	Max. (A)	Typ. (pF)	(MHz)	(V)
ESD9BL0521P	5	1	6	11	1	15	1	0.5	1	0
						25	4			

TOP DYNAMIC

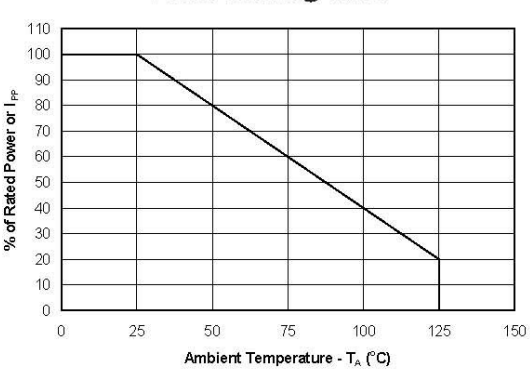


Dated: 02/07/2013 Rev: 01

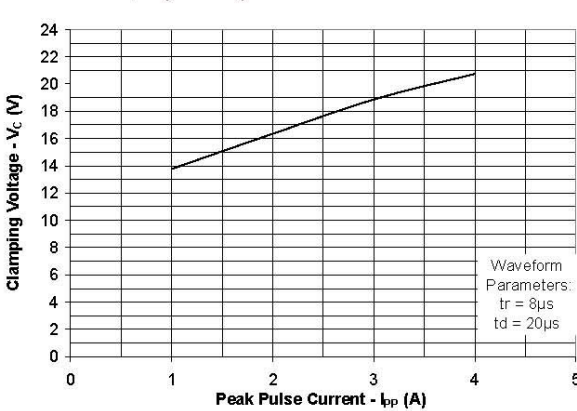
Non-Repetitive Peak Pulse Power vs. Pulse Time



Power Derating Curve



Clamping Voltage vs. Peak Pulse Current

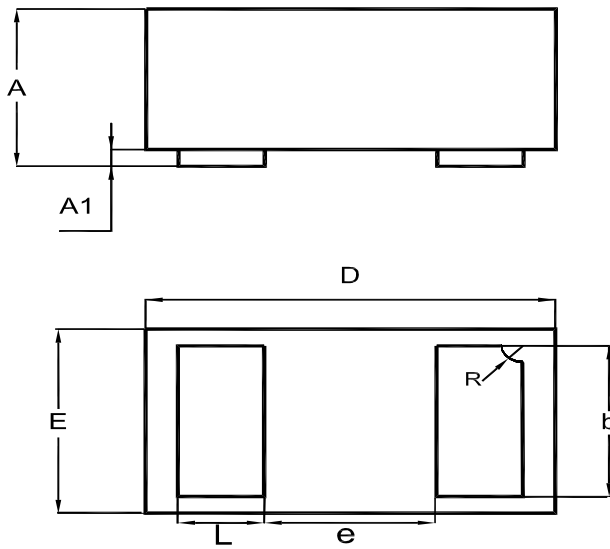


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PACKAGE OUTLINE

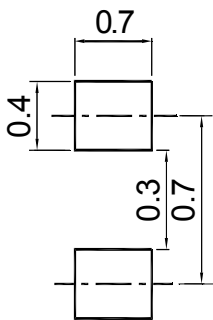
Plastic surface mounted package

DFN1006-2H



UNIT	A	A1	b	D	E	e	L	R
mm	0.51 0.46	0.05 0	0.55 0.45	1.05 0.95	0.65 0.55	0.4	0.3 0.2	0.15 0.05

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN1006-2H	8	4 ± 0.1	0.157 ± 0.004	178	7	5,000

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