

ESDBL6V1P

Transient Voltage Suppressors

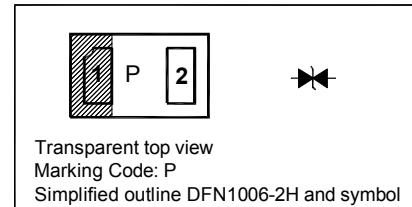
for ESD Protection

Features

- Low Leakage Current
- 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
ESD per IEC 61000-4-2 Contact	V_{PP}	± 30	KV
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	9	A
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PP}	140	W
Junction Temperature	T_j	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			Capacitance		
	V_{RM}	I_{RM} at V_{RM}	V_{BR}		C_j	at f	at V_R	
	Max. (V)	Max. (μA)	Min. (V)	Max. (V)	(mA)	Typ. (pF)	(MHz)	(V)
ESDBL6V1P	3	0.1	6.1	8	1	22	1	0

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Figure 1. Relative variation of peak pulse power versus initial junction temperature

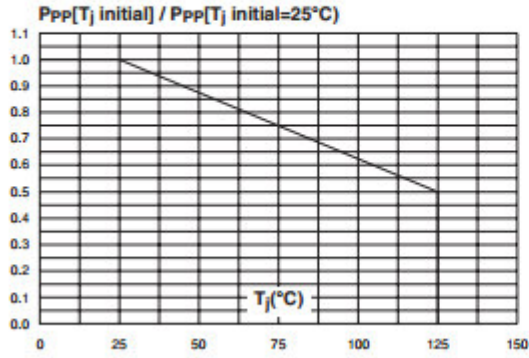


Figure 2. Peak pulse power versus exponential pulse duration

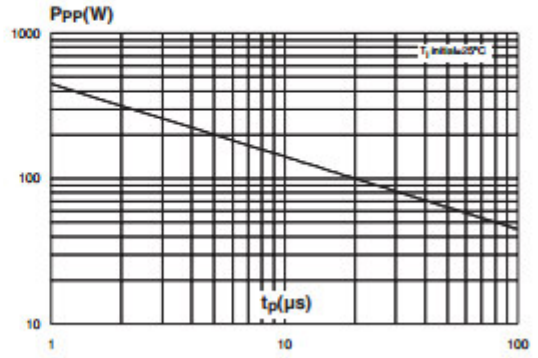
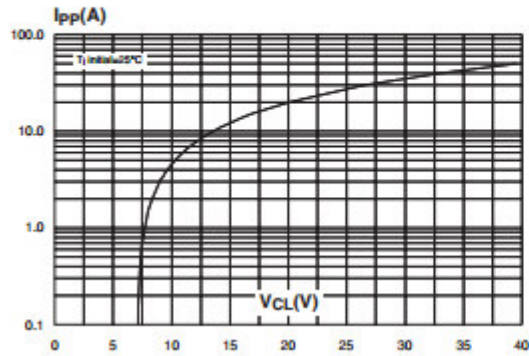


Figure 3. Clamping voltage versus peak pulse current (typical values)

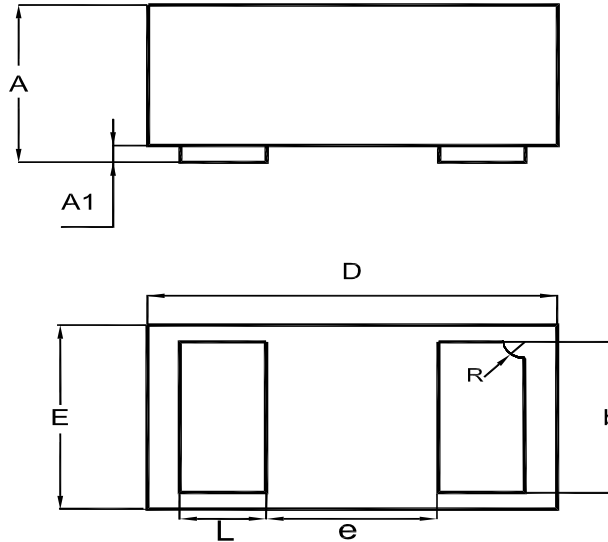


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PACKAGE OUTLINE

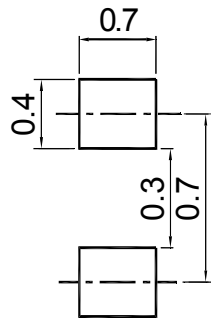
Plastic surface mounted package

DFN1006-2H



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