

ESDBL0531P

Transient Voltage Suppressors

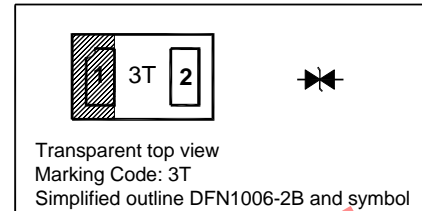
for ESD Protection

Features

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

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode

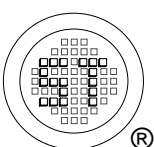


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

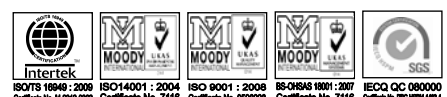
Parameter	Symbol	Value	Unit
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 20 ± 12	KV
Peak Pulse Current ($t_p = 8/20 \text{ us}$)	I_{PP}	4	A
Peak Pulse Power ($t_p = 8/20 \text{ us}$)	P_{pk}	80	W
Operating Temperature	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

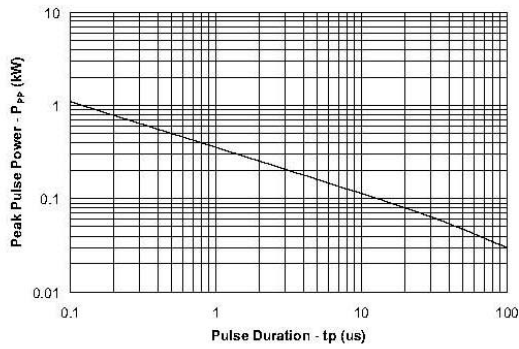
Type	Reverse Stand-off Voltage	Reverse Current	Reverse Breakdown Voltage			Clamping Voltage	Reverse Peak Pulse Current	Capacitance		
	V_{RWM}	I_{R} at V_{RWM}	V_{BR}		at I_{T}	V_{C} at Max. I_{PP}	I_{PP}	C_j	at f	at V_{R}
	Max. (V)	Max. (μA)	Min. (V)	Max. (V)	(mA)	Max. (V)	Max. (A)	Max. (pF)	(MHz)	(V)
ESDBL0531P	5	0.1	6	11	1	12	1	0.8	1	0
						20	4			



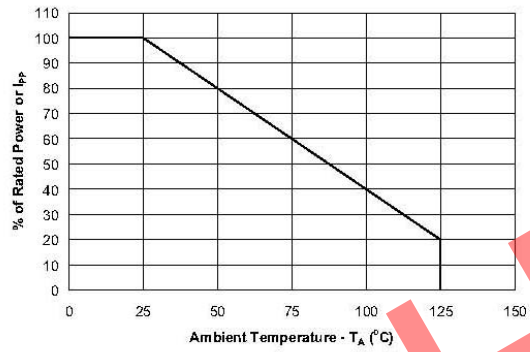
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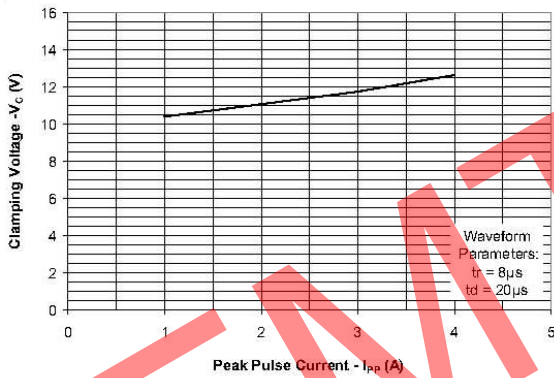
Non-Repetitive Peak Pulse Power vs. Pulse Time



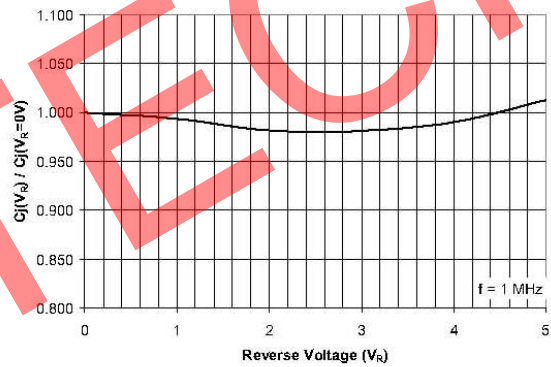
Power Derating Curve



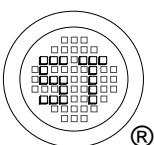
Clamping Voltage vs. Peak Pulse Current



Normalized Capacitance vs. Reverse Voltage



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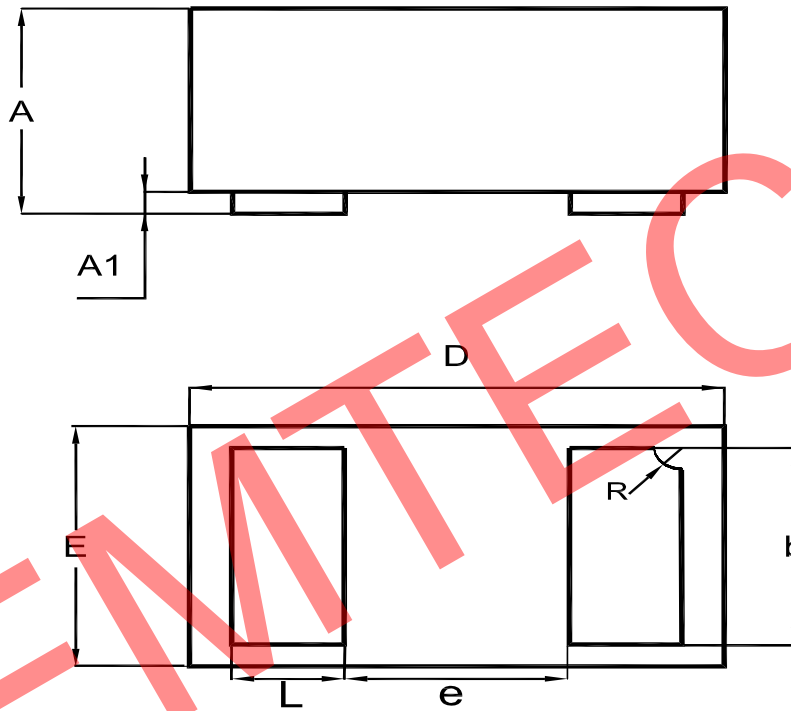


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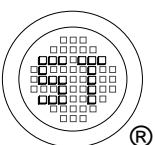
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

DFN1006-2B



UNIT	A	A1	b	D	E	e	L	R
mm	0.41	0.05	0.55	1.075	0.675	0.4	0.3	0.15
	0.36	0	0.45	0.95	0.55		0.2	0.05



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Dated: 15/07/2013 Rev: 01