

1-Line Bi-directional TVS Diode

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Features

- Ultra small package: 1.0x0.6x0.5mm
- Ultra low capacitance: 27pF typical
- Ultra low leakage: nA level
- Low operating voltage: ±5V
- Low clamping voltage
- 2-pin leadless package
- Complies with following standards:
- - IEC 61000-4-2 (ESD) immunity test

Air discharge: ±30kV

Contact discharge: ±30kV

- – IEC61000-4-5 (Lightning)19A (8/20 μs)
 - IEC61000-4-4 (EFT) 40A (5/50ns)
- RoHS Compliant
- Lead Finish: NiPdAu

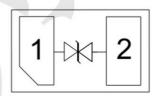
Mechanical Characteristics

- Package: DFN1006-2 (0402)
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Shipping Qty:12000 Or 10000 /7Inch Tape & Reel

Applications

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals
- Audio Players
- Keypads, Side Keys, LCD Displays

Dimensions and Pin Configuration



Marking: H

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Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ppk	140	W
Peak Pulse Current (8/20µs)	Ірр	19	Α
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	VESD	±30 ±30	kV
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	−55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

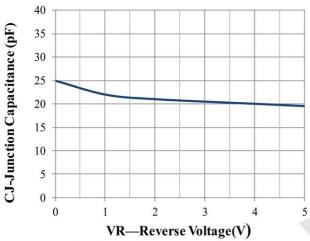
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	
Breakdown Voltage	VBR	6			V	IT = 1mA
Reverse Leakage Current	I _R			0.08	uA	VRWM = 5V
Clamping Voltage	Vc		8.5	8.5	V	Ipp=1A(8x 20us pulse)
Clamping Voltage	Vc	X	8.5	8.5	V	Ipp=19A(8x 20us pulse)
Junction Capacitance	C1		27		pF	VR = 0V, f = 1MHz



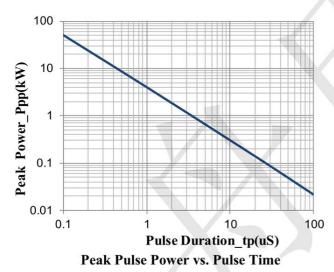
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Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

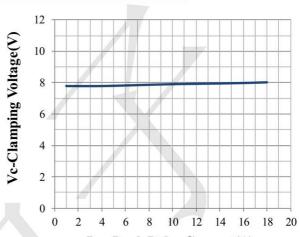


Junction Capacitance vs. Reverse Voltage

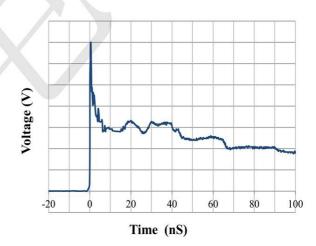


120 100 80 80 40 20 0 0 25 50 75 100 125 150 Ambient Temperature Ta(°C)

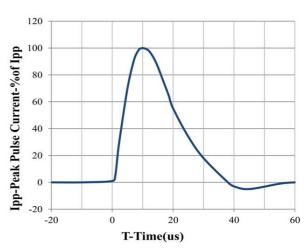
Power Derating Curve



Ipp-Peak Pulse Current(A) Clamping Voltage vs. Peak Pulse Current



IEC61000-4-2 Pulse Waveform



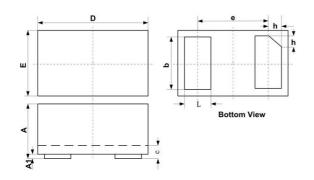
8 X 20us Pulse Waveform



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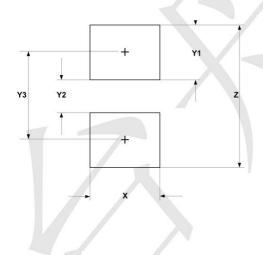
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DFN1006-2 Package Outline Drawing (0402)



		DIMENSIONS				
	MILLIMETERS			INCHES		
SYM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.45	0.50	0.55	0.018	0.020	0.022
A1	0.00	0.02	0.05	0.000	0.001	0.002
b	0.45	0.50	0.55	0.018	0.020	0.022
С	0.12	0.15	0.18	0.005	0.006	0.007
D	0.95	1.00	1.05	0.037	0.039	0.041
е	0.65 BSC			0.026 BSC		
E	0.55	0.60	0.65	0.022	0.024	0.026
L	0.20	0.25	0.30	0.008	0.010	0.012
h	0.07	0.12	0.17	0.003	0.005	0.007

Suggested Land Pattern



SYM	DIMENSIONS				
STIVI	MILLIMETERS	INCHES			
X	0.60	0.024			
Y1	0.50	0.020			
Y2	0.30	0.012			
Y3	0.80	0.032			
Z	1.30	0.052			

单击下面可查看定价,库存,交付和生命周期等信息

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