

# ESD0301BU

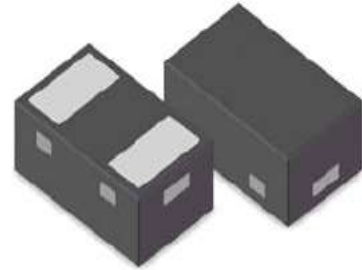
## ESD0301BU Ultra Low Capacitance ESD Protection Diode

### General description

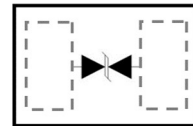
Silicon Protection Diode in a DFN1006 Package.

### FEATURES

- 100 Watt peak pulse power (t/p=8/20)
- Capacitance typ. 0.25 pF
- Bidirectional configurations
- Low Leakage Current
- Low clamping voltage
- IEC 61000-4-2 ±20Kv Contact ±20Kv air.
- RoHS Compliant
- Green EMC



DFN1006 Package



### Absolute Maximum Ratings (T<sub>A</sub> = 25°C unless otherwise noted)

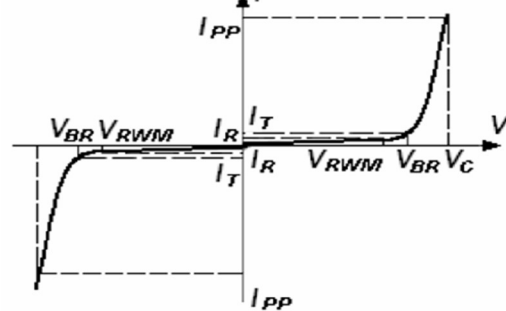
Symbol	Parameter	Value	Units
P <sub>pp</sub>	Peak pulse power	100	W
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>J</sub>	Junction Temperature	-55 to +125	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±20 ±20	KV

### Device Marking:

Device Type	Marking	Shipping
ESD0301BU	3BU	10,000/Reel

### Electrical Parameter

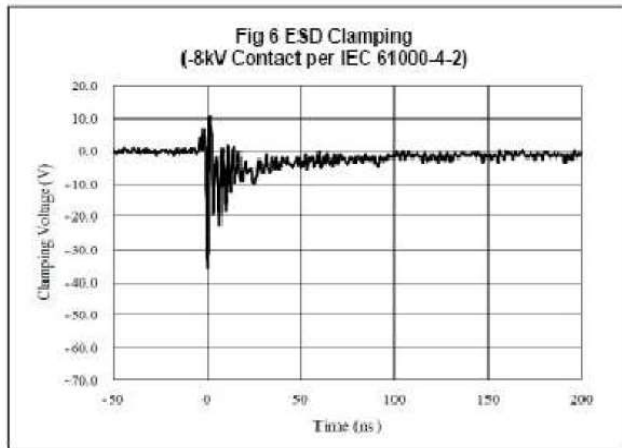
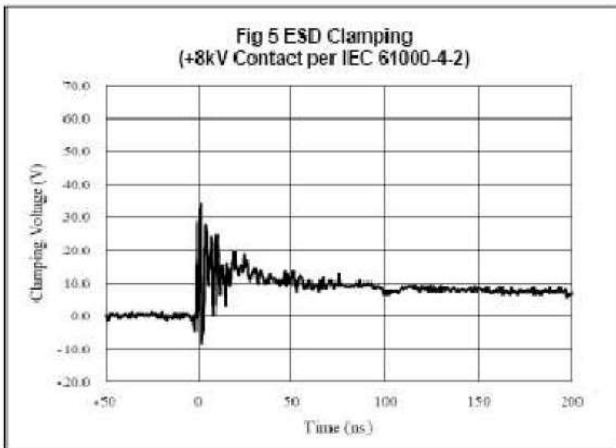
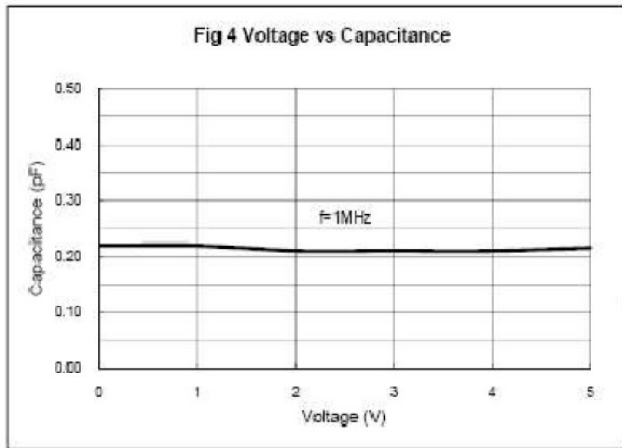
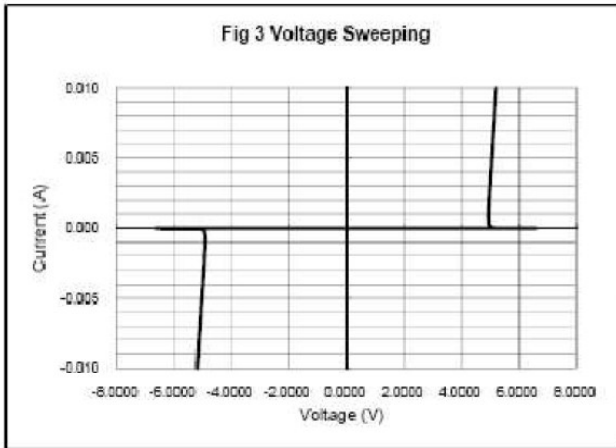
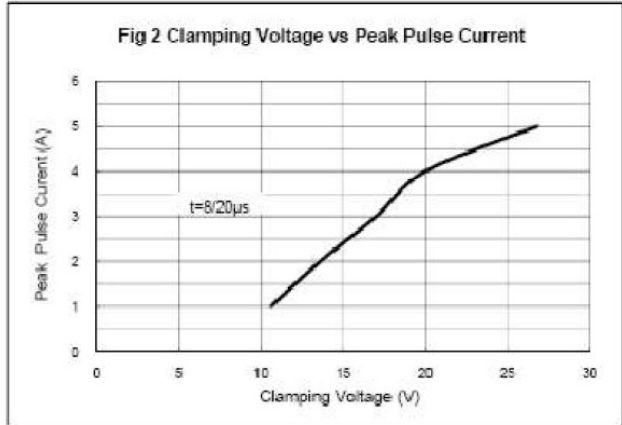
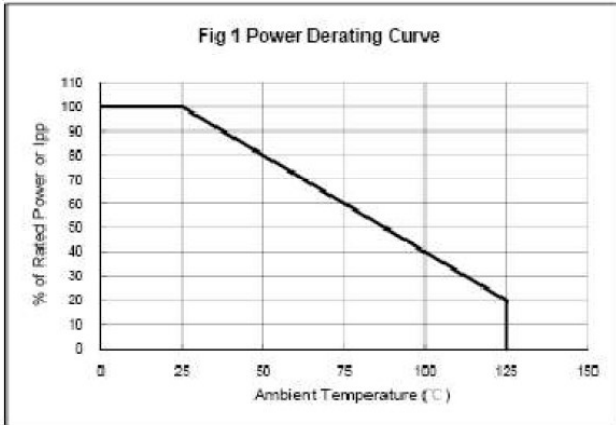
Symbol	Parameter
I <sub>pp</sub>	Maximum Reverse Peak Pulse Current
V <sub>C</sub>	Clamping Voltage @ I <sub>pp</sub>
V <sub>RWM</sub>	Working Peak Reverse Voltage
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>
I <sub>T</sub>	Test Current
V <sub>BR</sub>	Breakdown Voltage @ I <sub>T</sub>



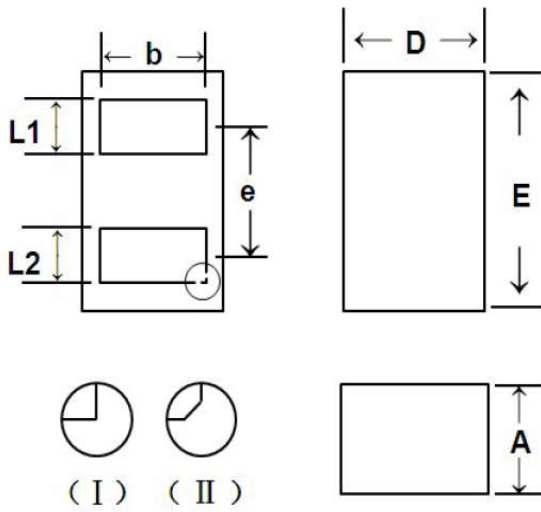
### Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
V <sub>BR</sub>	Reverse Breakdown Voltage	I <sub>T</sub> =1mA	4.2		--	Volts
V <sub>RWM</sub>	Reverse Stand-off Voltage		--	--	3.3	Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =3.3V	--	--	100	nA
V <sub>C</sub>	Clamping Voltage	I <sub>pp</sub> =1A (8/20uS)	--	--	12	Volts
		I <sub>pp</sub> =4A (8/20uS)	--	--	25	Volts
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> =0V, f= 1MHz	--	0.25	0.4	pF

## ELECTRICAL CHARACTERISTICS CURVE

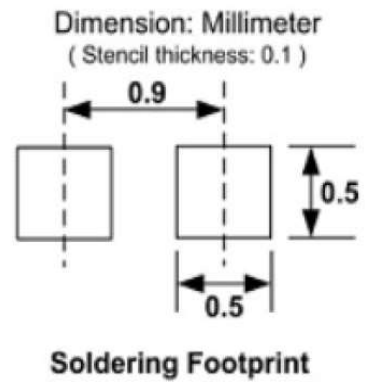


## DFN1006 PACKAGE OUTLINE DIMENSIONS



NOTE: ALL DIMENSIONS IN MM

	MIN	NOM	MAX
D	0.55	0.60	0.65
E	0.95	1.00	1.05
L1	0.20	0.25	0.30
L2	0.20	0.25	0.30
A	0.45	0.50	0.55
b	0.45	0.50	0.55
e		0.64BSC	



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