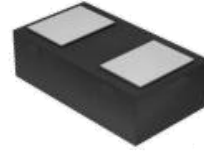


Features

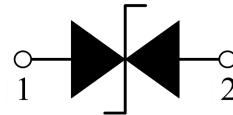
- Capacitance: 3.5pF(typ.)
- Reverse Working Voltage: 5V
- IEC 61000-4-2 (ESD Air): $\pm 25\text{KV}$
IEC 61000-4-2 (ESD Contact): $\pm 20\text{KV}$ IEC
61000-4-5 (Lightning 8/20 μs): 2.5A



DFN1006

Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies



Limiting Values($T_A = 25\text{ }^\circ\text{C}$, unless otherwise specified)

Symbol	Parameter	Conditions	Min	Max	Unit
V_{ESD}	Electrostatic Discharge Voltage	IEC 61000-4-2; Contact Discharge	-	± 20	kV
		IEC 61000-4-2; Air Discharge	-	± 25	kV
P_{PP}	Peak Pulse Power	$t_P = 8/20\text{ }\mu\text{s}$	-	40	W
I_{PPM}	Rated Peak Pulse Current	$t_P = 8/20\text{ }\mu\text{s}$	-	2.5	A
T_A	Ambient Temperature Range	-	-55	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-	-55	150	$^\circ\text{C}$

Electrical Characteristics($T_A = 25\text{ }^\circ\text{C}$, unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ.	Max	Unit
V_{RWM}	Reverse Working Voltage	$T_A = 25\text{ }^\circ\text{C}$	-	-	5.0	V
V_{BR}	Breakdown Voltage	$I_R = 1\text{mA}$; $T_A = 25\text{ }^\circ\text{C}$	5.6	-	9.0	V
I_R	Reverse Leakage Current	$V_{\text{RWM}} = 5\text{V}$; $T_A = 25\text{ }^\circ\text{C}$	-	-	100	nA
V_C	Clamping Voltage	$I_{\text{PP}} = 1\text{A}$, $t_P = 8/20\mu\text{s}$	-	-	13	V
		$I_{\text{PP}} = 2.5\text{A}$, $t_P = 8/20\mu\text{s}$	-	-	16	V
C_J	Junction Capacitance	$V_R = 0\text{V}$, $f = 1\text{ MHz}$	-	3.5	4.0	pF

Typical Characteristics

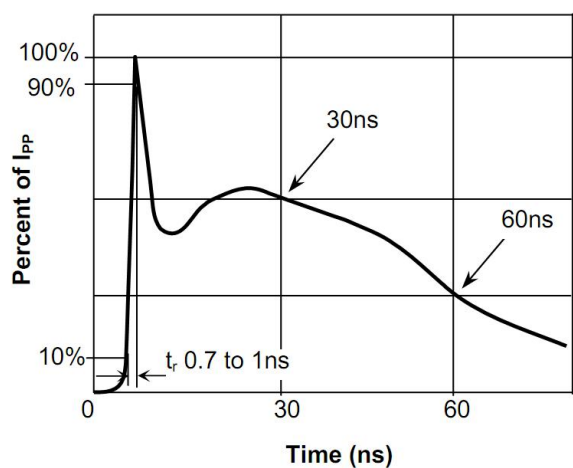


Fig.1 Pulse Waveform-ESD (IEC61000-4-2)

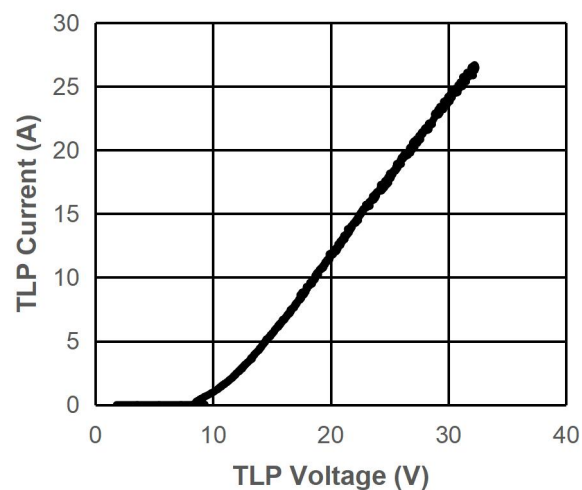


Fig.2 Transmission Line Pulse (TLP)

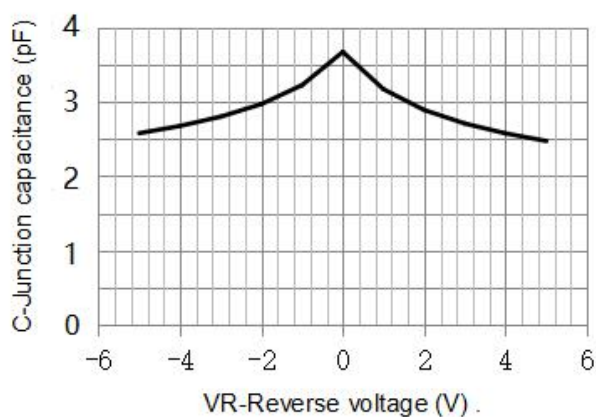


Fig.3 Capacitance vs. Reverse Voltage

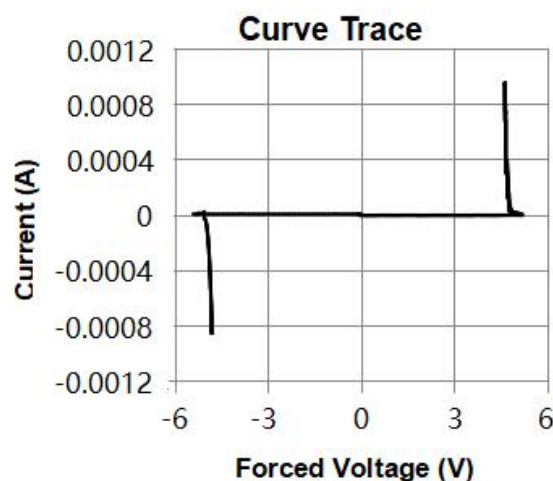
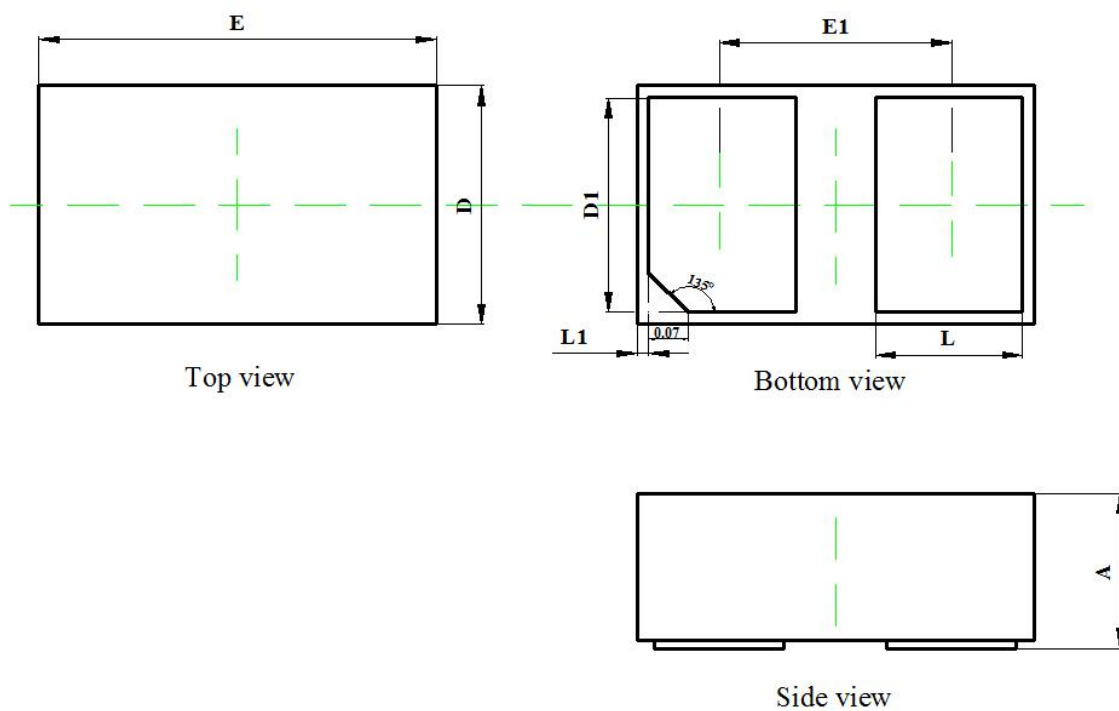


Fig.4 IV Curve (Forward Voltage)

Package Outline Dimensions

DFN1006 Package Outline



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.350	0.450	0.014	0.018
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
D1	0.420	0.520	0.017	0.020
E1	0.550	0.650	0.022	0.026
L	0.270	0.370	0.011	0.015
L1	0.000	0.100	0.000	0.004