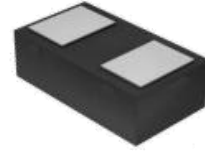


Features

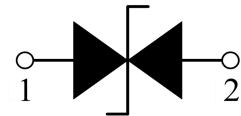
- Capacitance: 15pF(typ.)
- Reverse Working Voltage: 5V
- IEC 61000-4-2 (ESD Air): $\pm 25\text{KV}$
- IEC 61000-4-2 (ESD Contact): $\pm 25\text{KV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 8A



DFN1006

Applications

- Smart Phone and Tablet PC
- TV and Set Top Box
- Wearable Devices
- PDA



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	-	± 25	kV
		IEC 61000-4-2; Air Discharge	-	± 25	kV
P_{PP}	Peak Pulse Power	$t_P = 8/20\text{ }\mu\text{s}$	-	80	W
I_{PPM}	Rated Peak Pulse Current	$t_P = 8/20\text{ }\mu\text{s}$	-	8	A
T_A	Ambient Temperature Range	-	-55	125	$^\circ\text{C}$
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	6.5	8.4	V
I_R	Reverse Leakage Current	$V_{\text{RWM}} = 5\text{V}$; $T_A = 25\text{ }^\circ\text{C}$	-	-	0.1	μA
V_C	Clamping Voltage	$I_{\text{PP}} = 8\text{A}$, $t_P = 8/20\mu\text{s}$	-	-	10	V
C_J	Junction Capacitance	$V_R = 0\text{V}$, $f = 1\text{ MHz}$	-	15	18	pF

Typical Characteristics

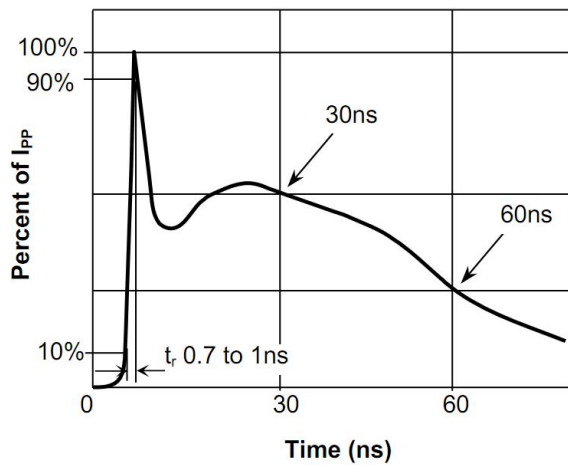


Fig.1 Pulse Waveform-ESD(IEC61000-4-2)

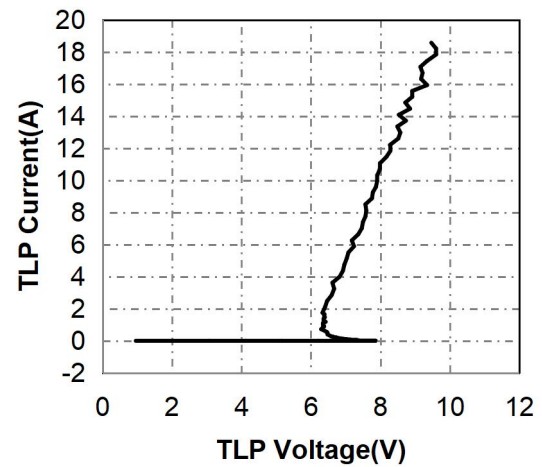


Fig.2 Transmission Line Pulse (TLP)

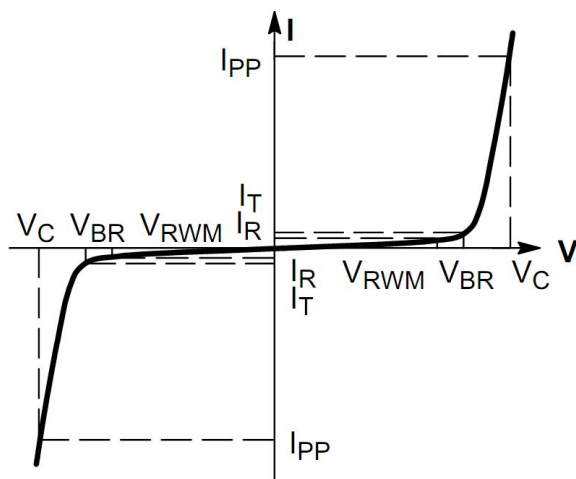


Fig.3 V-I Characteristics for Bidirectional Diode

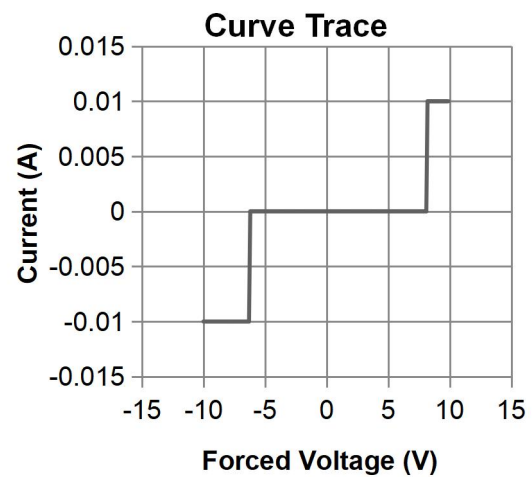


Fig.4 IV Curve

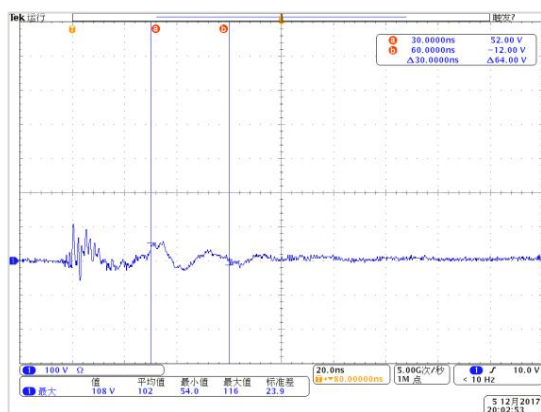


Fig.5 Clamping Voltage at IEC61000-4-2
+8kV Pulse Waveform

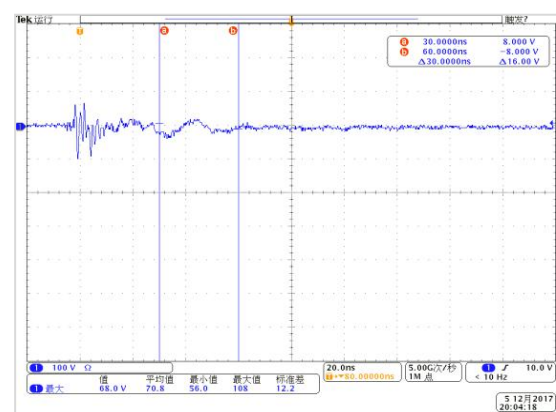
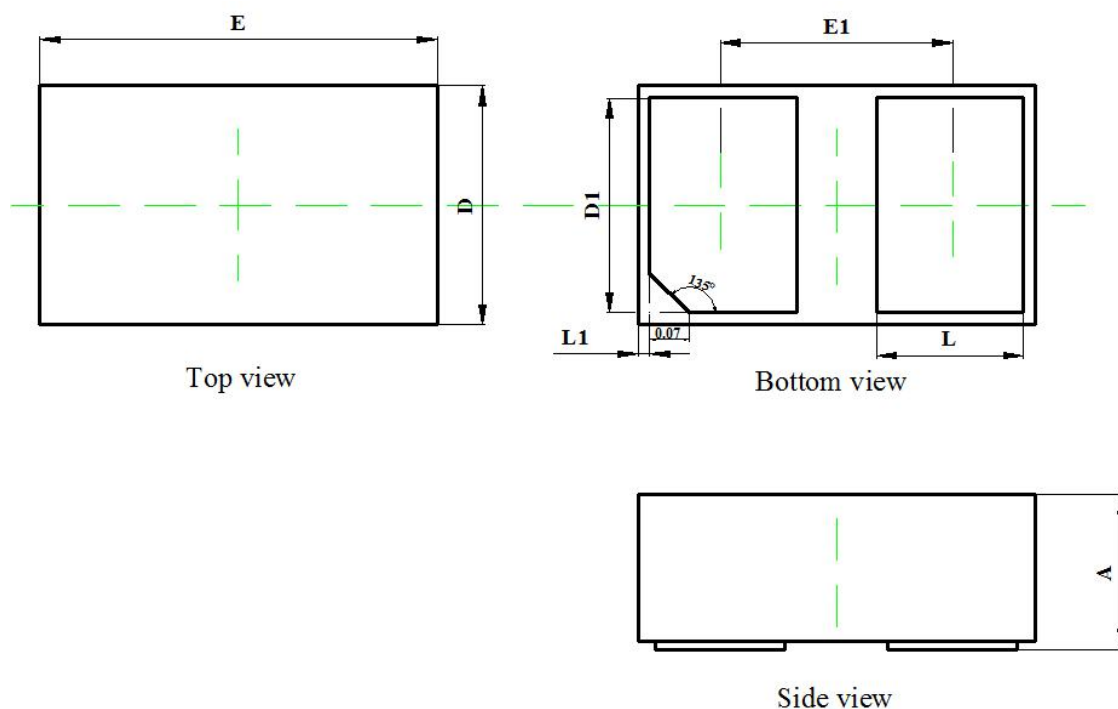


Fig.6 Clamping Voltage at IEC61000-4-2
-8kV Pulse Waveform

Package Outline Dimensions

DFN1006 Package Outline



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.320	0.420	0.013	0.017
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
D1	0.450	0.550	0.018	0.022
E1	0.550	0.650	0.022	0.026
L	0.280	0.380	0.011	0.015
L1	0.000	0.100	0.000	0.004

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