

## Features

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

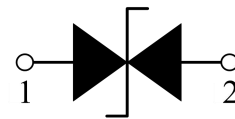
SES5VD1006SHSY-2B



**DFN1006**

## Applications

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



**Schematic Diagram**

## 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	$t_p = 8/20\ \mu\text{s}$	-	60	W
$I_{PPM}$	Rated Peak Pulse Current	$t_p = 8/20\ \mu\text{s}$	-	5	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	$V_{RWM} = 5\text{V}$ ; $T_A = 25\text{ }^\circ\text{C}$	-	-	0.1	$\mu\text{A}$
$V_C$	Clamping Voltage	$I_{PP} = 1\text{A}$ , $t_p = 8/20\ \mu\text{s}$	-	-	10	V
		$I_{PP} = 5\text{A}$ , $t_p = 8/20\ \mu\text{s}$	-	-	12	V
$C_J$	Junction Capacitance	$V_R = 0\text{V}$ , $f = 1\text{MHz}$	-	15	18	pF

### Typical Characteristics

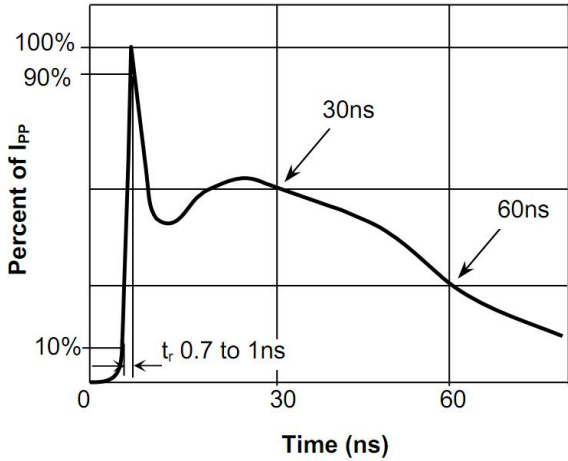


Fig.1 Pulse Waveform-ESD(IEC61000-4-2)

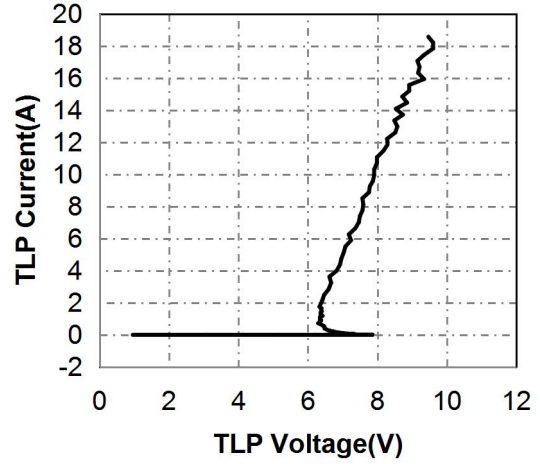


Fig.2 Transmission Line Pulse (TLP)

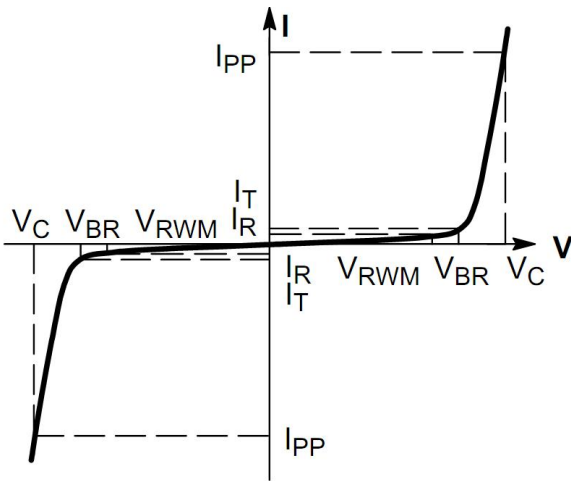


Fig.3 V-I Characteristics for Bidirectional Diode

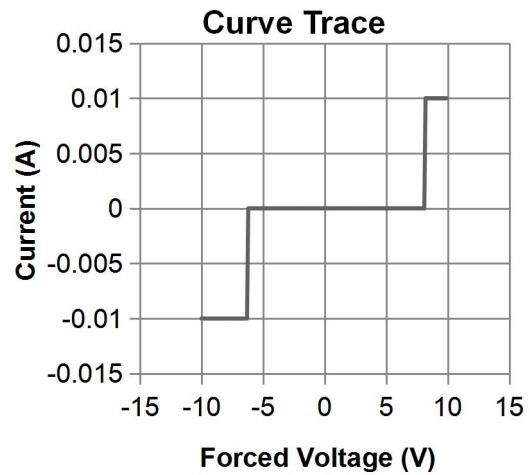


Fig.4 IV Curve

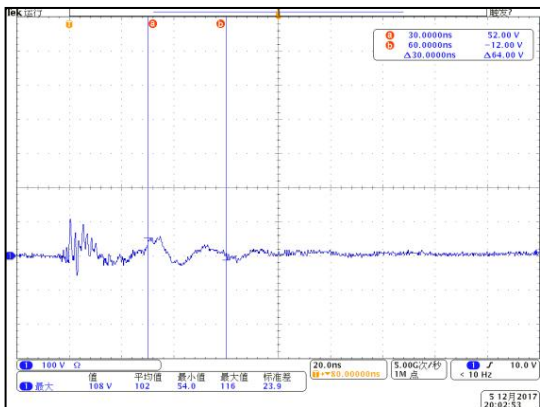


Fig.5 Clamping Voltage at IEC61000-4-2 +8kV Pulse Waveform

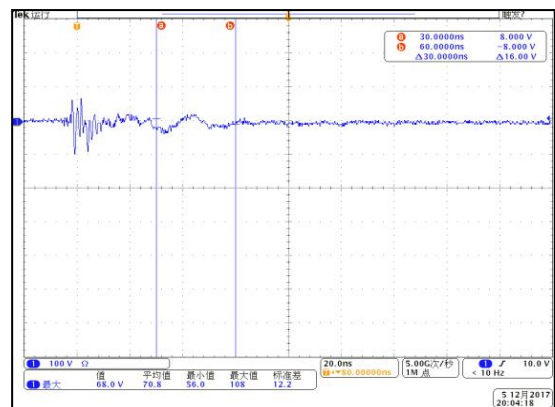
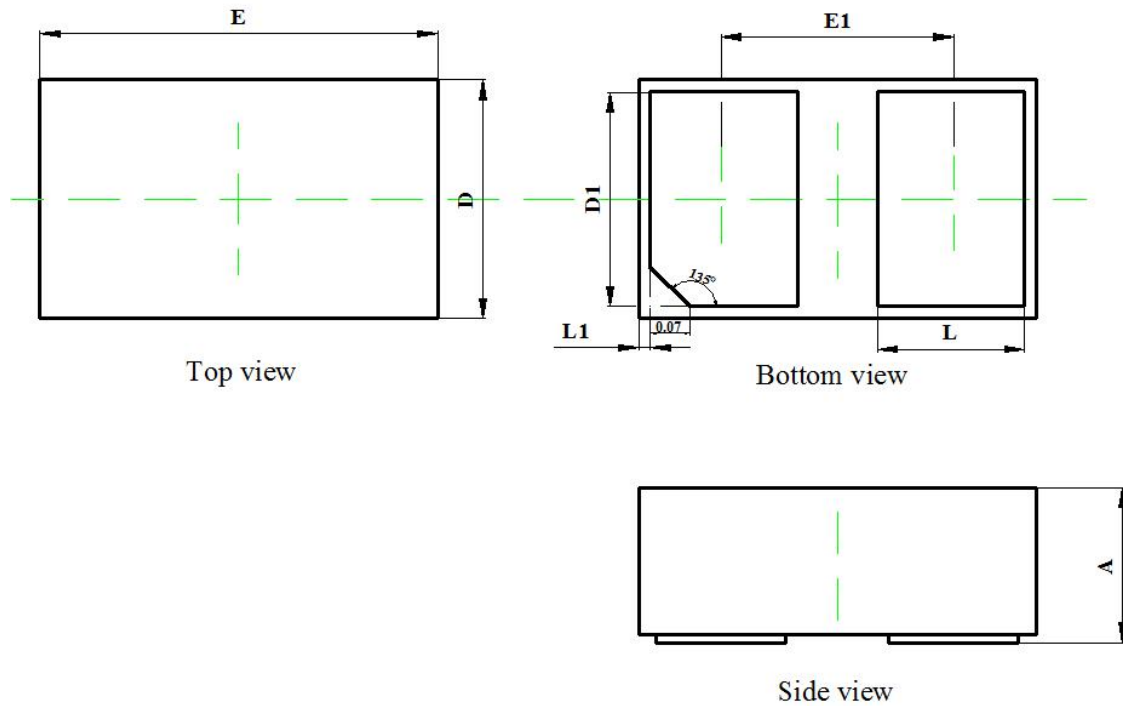


Fig.6 Clamping Voltage at IEC61000-4-2 -8kV Pulse Waveform

## Package Outline Dimensions

### DFN1006 Package Outline



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

## Order Information

Type	Package	Size (mm)	Delivery Form	Delivery Quantity
SES5VD1006SHSY-2B	DFN1006	1.00x0.60x0.37	7" T&R	10,000

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