

Features

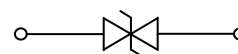
- Capacitance: 15pF(typ.)
- Reverse Working Voltage: 5V
- IEC 61000-4-2 (ESD Air): ±25KV
- IEC 61000-4-2 (ESD Contact): ±25KV
- IEC 61000-4-5 (Lightning 8/20µs): 5A



DFN1006

Applications

- Smart phone and tablet PC
- TV and set top box
- Wearables



Schematic Diagram

Absolute Maximum Ratings (T_A=25°C, Unless otherwise specified)

Parameter	Symbol	Max.	Unit
Electrostatic Discharge Voltage-IEC 61000-4-2; Contact Discharge	V _{ESD}	±25	kV
Electrostatic Discharge Voltage-IEC 61000-4-2; Air Discharge		±25	kV
Peak Pulse Power (t _p =8/20µS)	P _{PP}	60	W
Peak Pulse Current (t _p =8/20µS)	I _{PP}	5	A
Ambient Temperature Range	T _A	-55 To +125	°C
Storage Temperature Range	T _{STG}	-55 To +150	°C

Electrical Characteristics (T_A=25°C, Unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Working Voltage	V _{RWM}	T _A =25°C	-	-	5	V
Breakdown Voltage	V _{BR}	I _R =1mA; T _A =25°C	5.6	6.5	8.4	V
Reverse Leakage Current	I _R	V _{RWM} =5V, T _A =25°C	-	-	0.1	µA
Clamping Voltage	V _C	I _{PP} =1A, T _p =8/20µS	-	-	10	V
		I _{PP} =5A, T _p =8/20µS	-	-	12	V
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	15	18	pF

Typical Characteristic Curves

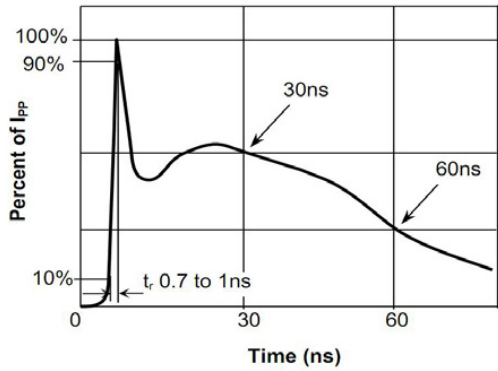


Fig.1 Pulse Waveform-ESD(IEC61000-4-2)

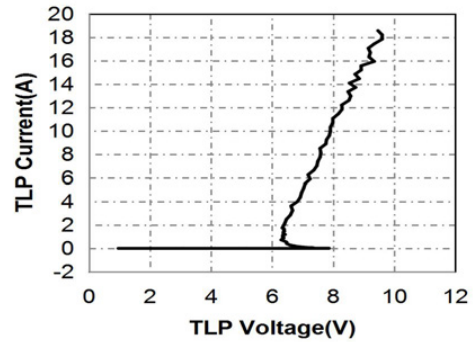


Fig.2 Transmission Line Pulse (TLP)

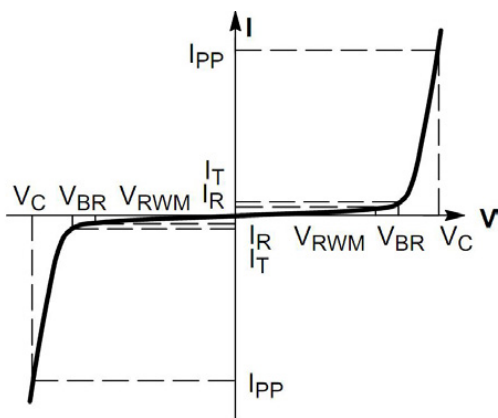


Fig.3 V-I Characteristics for Bidirectional Diode

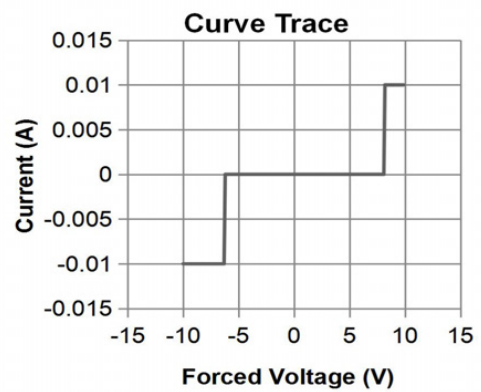


Fig.4 IV Curve

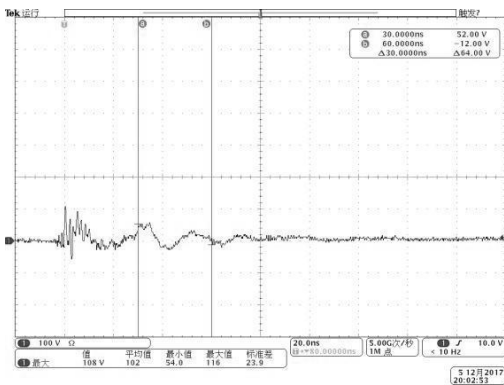


Fig.5 Clamping Voltage at IEC61000-4-2+8kV Pulse Waveform

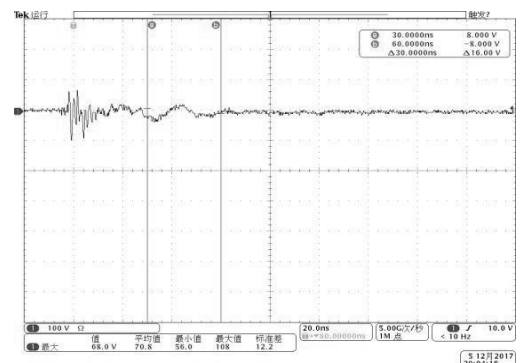
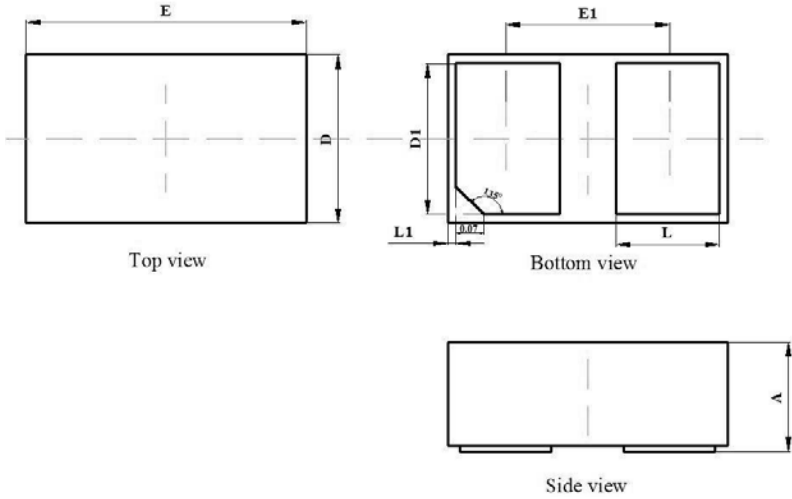


Fig.6 Clamping Voltage at IEC61000-4-2 -8kV Pulse Waveform

Package Outline Dimensions



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

Order Information

Device	Package	Marking	Quantity	HSF Status
GSEZ5B180	DFN1006	Tape & Reel	10,000pcs / Reel	RoHS compliant