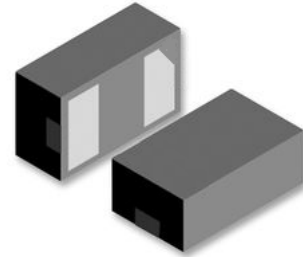


Features

- 300 Watts peak pulse power ($t_p = 8/20\mu s$)
- DFN1006 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- Protection data/power line to:
 - IEC 61000-4-2 $\pm 30kV$ contact $\pm 30kV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 20A (8/20 μs)



DFN1006

Applications

- Smart Phones
- e-Readers
- Notebooks
- Digital Cameras
- Portable Devices
- Audio and Video Equipment



Schematic Diagram

Absolute Maximum Ratings

($T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_p=8/20\mu S$)	P_{PP}	300	W
Peak Pulse Current ($t_p = 8/20\mu S$)	I_{PP}	20	A
Junction Temperature	T_J	-55 to +125	$^\circ C$
Storage temperature	T_{STG}	-55 to +150	$^\circ C$

Electrical Characteristics

($T_A=25^\circ C$ unless otherwise specified)

Parameter	mbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}		-	-	5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6.0	6.8	-	V
Reverse Leakage Current	I_R	$V_R=5V$	-	-	1	μA
Clamping Voltage	V_C	$I_{PP}=20A, T_p=8/20\mu S$	-	-	15	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	30	-	pF

Typical Characteristic Curves

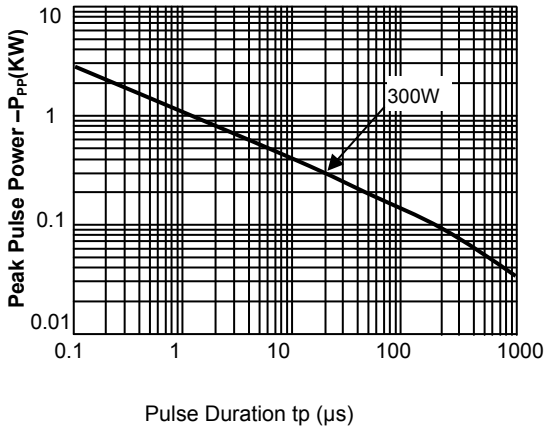


Fig 1 : Peak Pulse Power Rating Curve

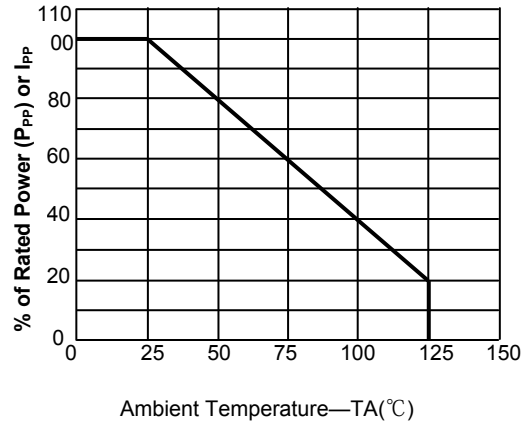


Fig 2 : Pulse Derating Curve

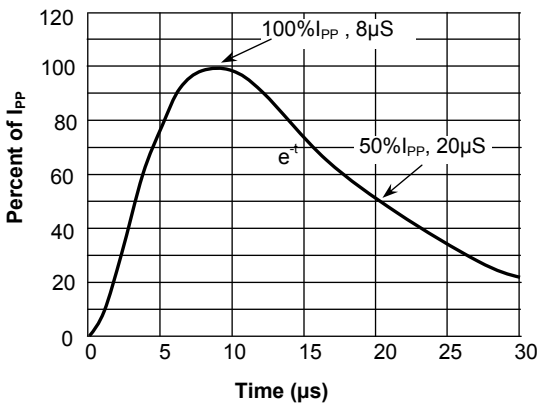


Fig 3 : Pulse Waveform-8/20 μs

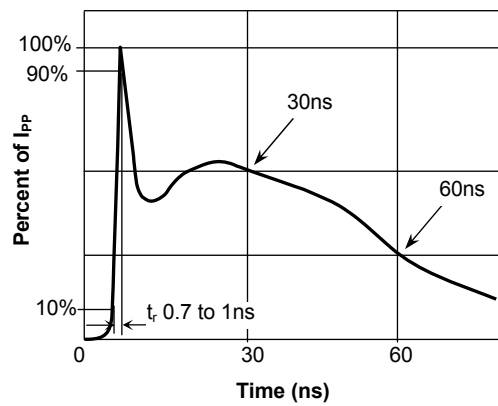
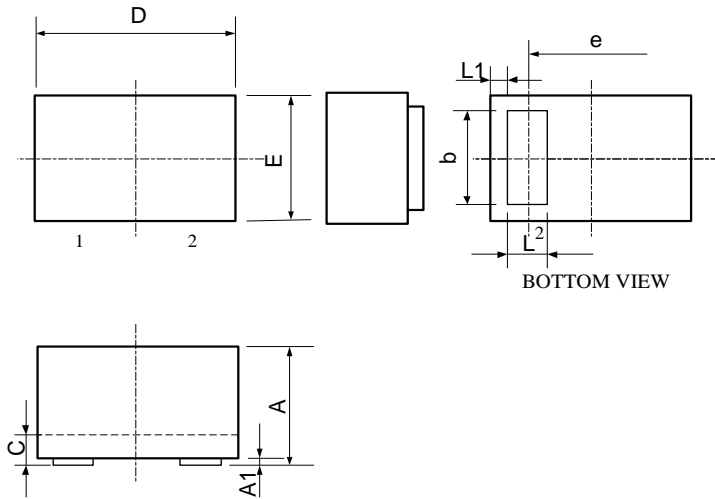


Fig 4 : Pulse Waveform-ESD(IEC61000-4-2)

Package Outline Dimensions

DFN1006



Symbol	milimeter		
	min	nom	max
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
GSEZ5B301	DFN1006	VV	Tape & Reel	10,000pcs / Reel	RoHS compliant