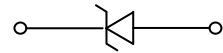


Features

- 280 Watts peak pulse power ($t_p=8/20\mu s$)
- DFN1006 package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Protection one data/power line to:
 IEC 61000-4-2 $\pm 20kV$ contact $\pm 15kV$ air
 IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 4A (8/20 μs)



DFN1006



Schematic Diagram

Applications

- Audio Line, Speaker, Headset, Microphone Protection
- Human Interface Devices (Keyboard, Touchpad, Buttons)
- DC Power Line Protection

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

Parameter	Symbol	Max.	Unit
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	280	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	15/20	kV
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	4	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	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	36	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	40	42	-	V
Reverse Leakage Current	I_R	$V_R=36V$	-	0.1	0.5	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=4A$	-	65	70	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	25	30	pF

Typical Characteristic Curves

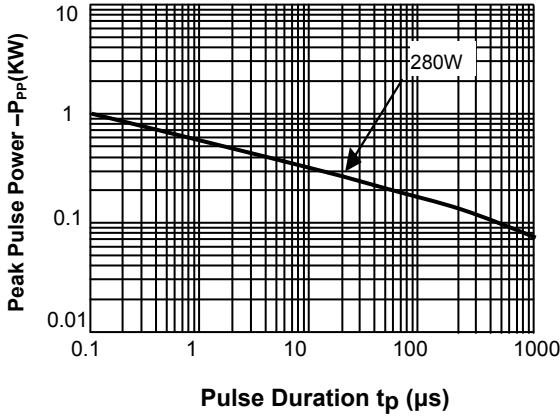


Figure 1. Peak Pulse Power Rating Curve

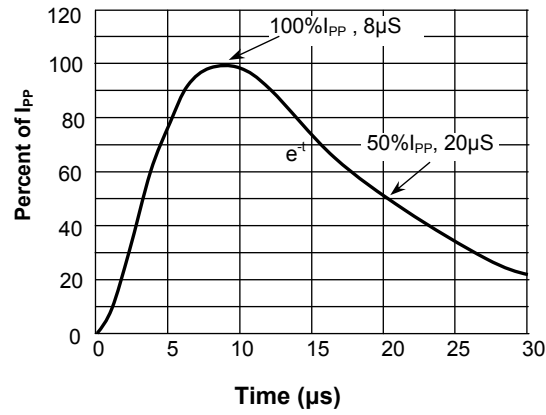


Figure 3. Pulse Waveform-8/20μs

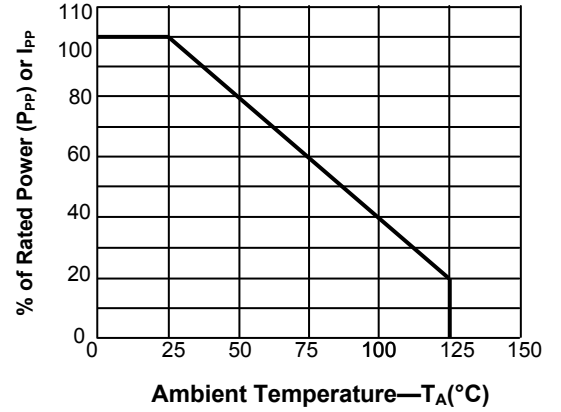


Figure 2. Pulse Derating Curve

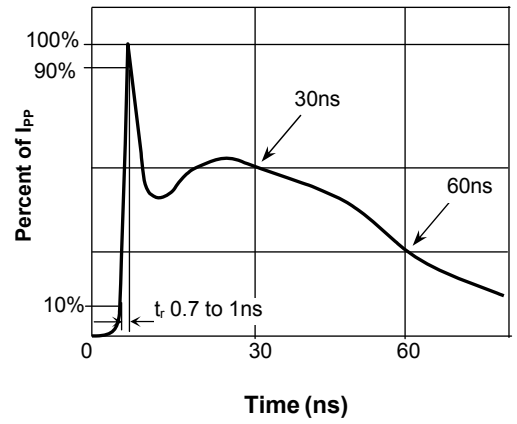
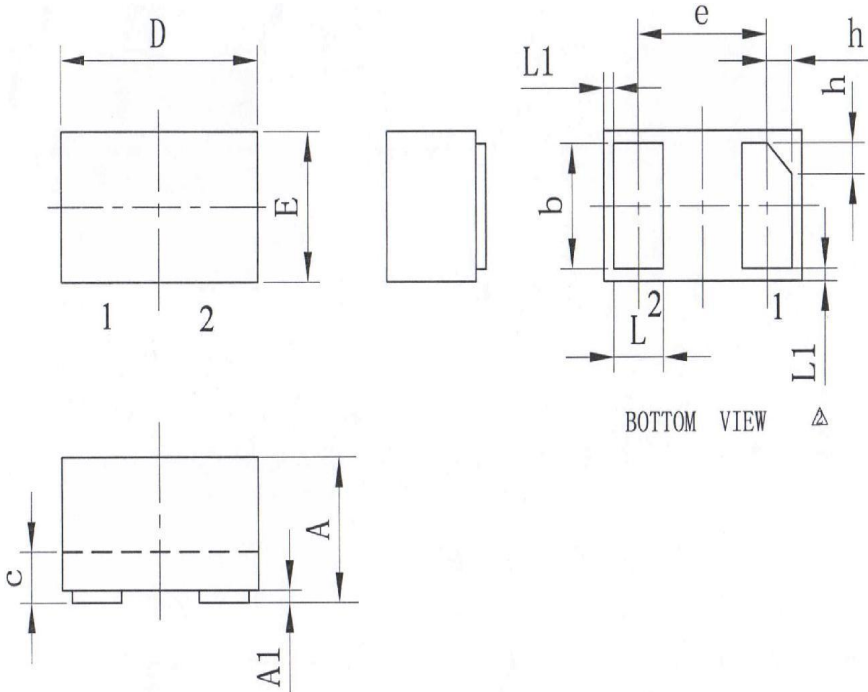


Figure 4. Pulse Waveform-ESD(IEC61000-4-2)

Product Dimensions DFN1006



Symbol	Millimeter		
	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
GSEZ36U250	DFN1006	DA	Tape & Reel	10,000pcs	RoHS compliant