

## Features

- 360 Watts peak pulse power ( $t_p=8/20\mu s$ )
- Bidirectional configuration
- Protects one I/O port
- Low clamping voltage
- Low leakage current
- ESD-immunity according IEC 61000-4-2  $\pm 30KV$  contact
- ESD-immunity according IEC 61000-4-2  $\pm 30KV$  air
- IEC 61000-4-4 (EFT) 40A (5/50ns)



DFN1006



Schematic Diagram

## Applications

- Cell Phone
- PDA
- Notebook
- Digital Cameras
- Portable Instrumentation
- Audio and video equipment

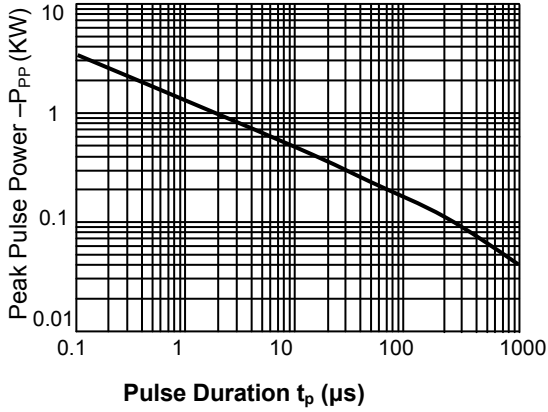
## Absolute Maximum Ratings ( $T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Max.	Unit
Peak Pulse Power ( $T_P=8/20\mu S$ )	$P_{PP}$	360	W
Peak Pulse Current ( $t_p=8/20\mu S$ )	$I_{PP}$	19	A
Junction Temperature	$T_J$	-55 To +125	$^\circ C$
Storage Temperature	$T_{STG}$	-55 To +150	$^\circ C$

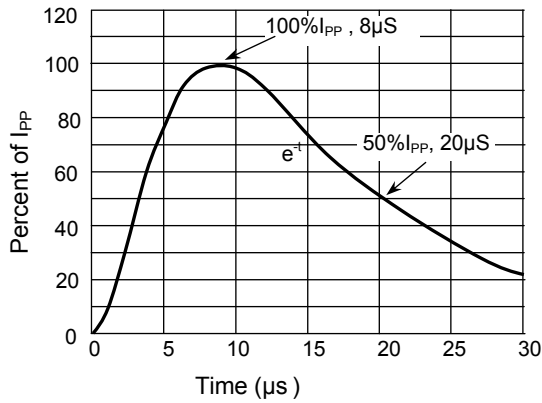
## Electrical Characteristics ( $T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	8	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	9	-	-	V
Reverse Leakage Current	$I_R$	$V_R=8V$	-	0.1	0.5	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=19A, T_P=8/20\mu S$	-	-	19	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	45	-	pF

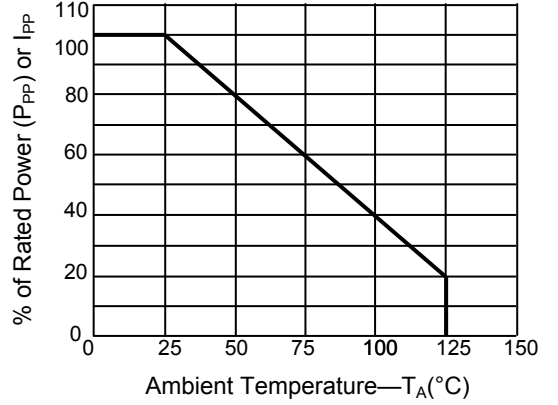
**Typical Characteristic Curves**



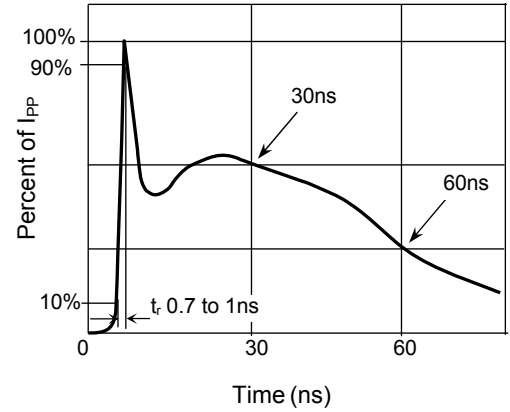
**Figure 1. Peak Pulse Power Rating Curve**



**Figure 3. Pulse Waveform-8/20μs**

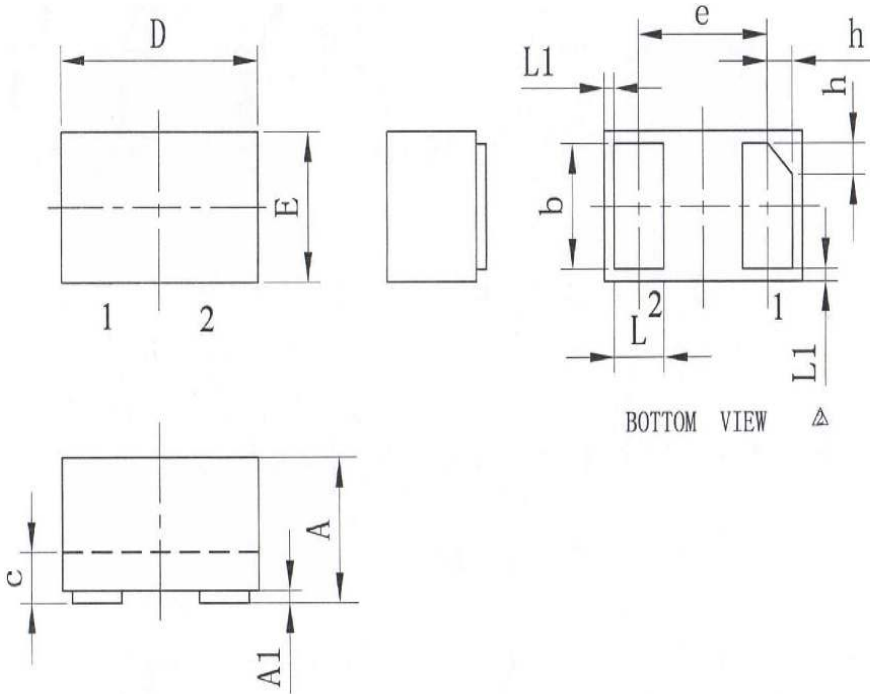


**Figure 2. Pulse Derating Curve**



**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
GSEZ8B450	DFN1006	8B	Tape & Reel	10,000pcs	RoHS compliant