

## Features

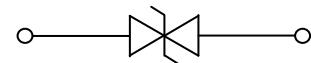
- 80 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- Bidirectional configurations
- Protects I/O and power port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2  $\pm 30KV$  contact  $\pm 30KV$  air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lighting) 10A (8/20 $\mu s$ )



DFN1006

## Applications

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



Schematic Diagram

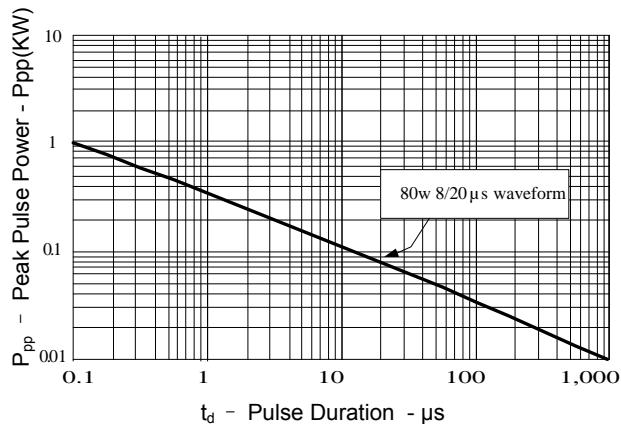
## Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Max.	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	P <sub>PP</sub>	80	W
Peak Pulse Current ( $t_p = 8/20\mu s$ )	I <sub>PP</sub>	10	A
Junction Temperature	T <sub>J</sub>	-55 To +125	°C
Storage Temperature	T <sub>STG</sub>	-55 To +150	°C

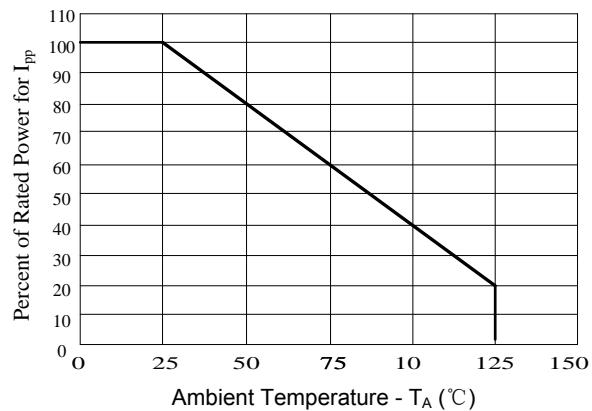
## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	3.3	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	3.8	-	-	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =3.3V	-	0.1	0.2	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =5A, T <sub>p</sub> =8/20μS	-	-	6	V
	V <sub>C</sub>	I <sub>PP</sub> =10A, T <sub>p</sub> =8/20μS	-	-	8	V
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	12	15	pF

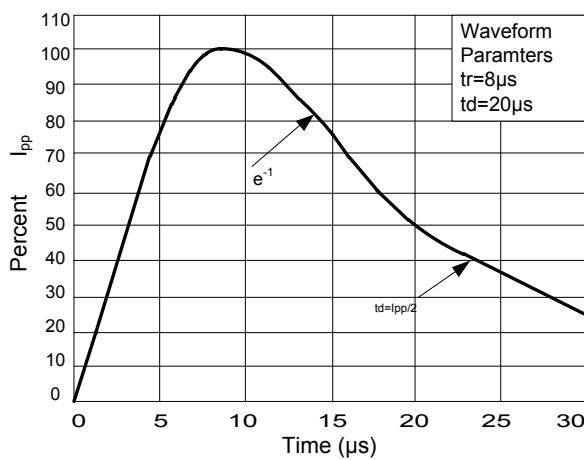
## Typical Characteristic Curves



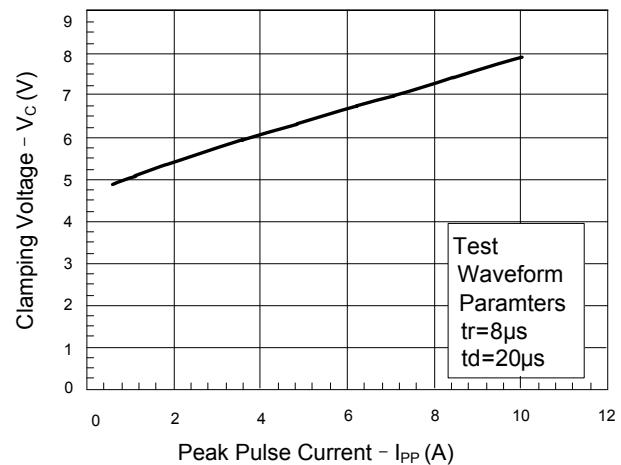
**Fig.1 Peak Pulse Power vs. Pulse Time**



**Fig.2 Power Derating Curve**

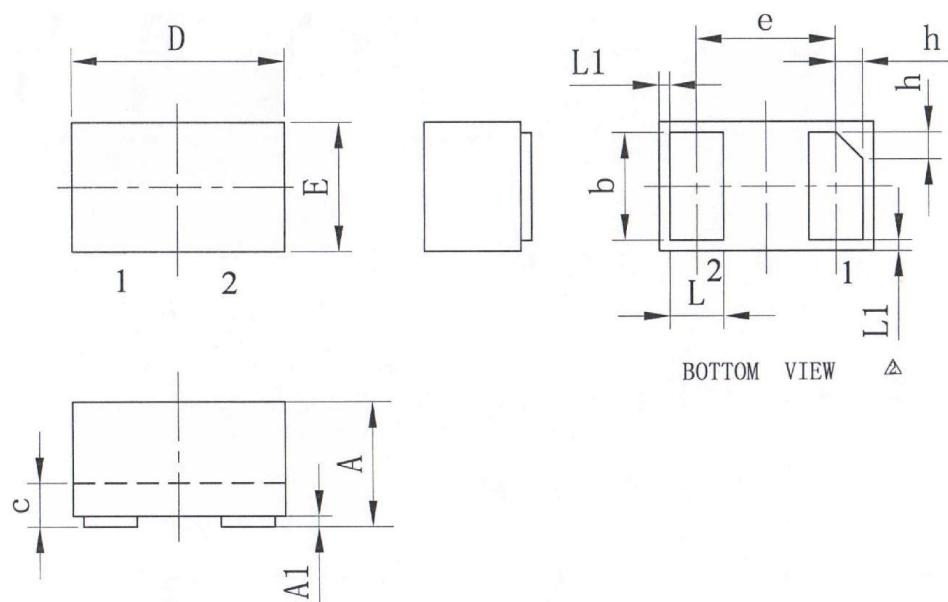


**Fig.3 Pulse Waveform**



**Figure 4: Clamping Voltage vs.Ipp**

**Package Outline Dimensions (DFN1006)**



Symbol	Dimensions in Millimeters		
	Min	Nom	Max
A	0.45	0.50	0.55
A1	0.00	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	0.65 BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05 REF		
h	0.07	0.12	0.17
Carrier Dimensions	20*20		

**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
GSEZ3B120	DFN1006	3E	Tape & Reel	10,000pcs / Reel	RoHS compliant