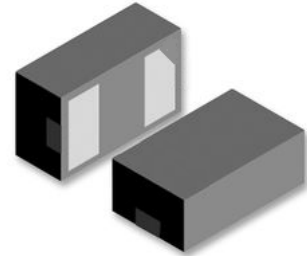
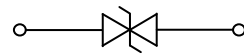


### Features

- 200 Watts peak pulse power ( $T_P=8/20\mu s$ )
- 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) 18A (8/20  $\mu s$ )



**Package:DFN1006**



**Schematic Diagram**

### Applications

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

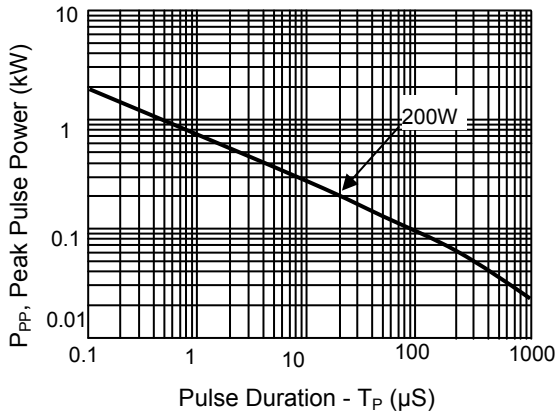
### Absolute Maximum Ratings ( $T_A=25^\circ C$ unless otherwise specified )

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P=8/20\mu S$ )	$P_{PP}$	200	W
Peak Pulse Current ( $T_P = 8/20\mu S$ )	$I_{PP}$	18	A
Junction Temperature	$T_J$	-55 to +125	$^\circ C$
Storage Temperature	$T_{STG}$	-55 to +150	$^\circ C$

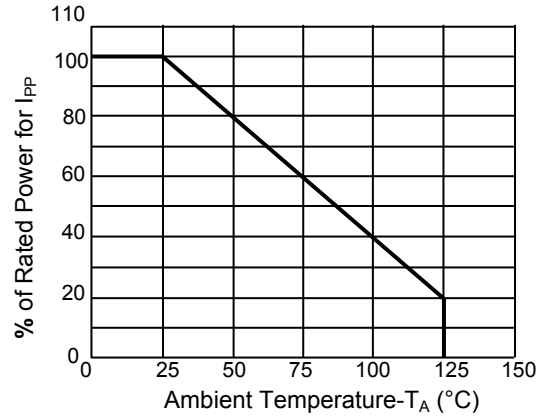
### Electrical Characteristics ( $T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Stand-off Voltage	$V_{RWM}$	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	6	6.8	-	V
Reverse Leakage Current	$I_R$	$V_R=5V$	-	0.1	0.5	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=18A, T_P=8/20\mu S$	-	-	11.5	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	30	-	pF

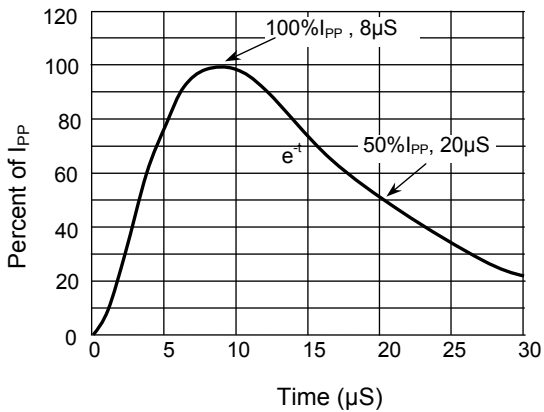
**Typical Electrical and Thermal Characteristic Curves**



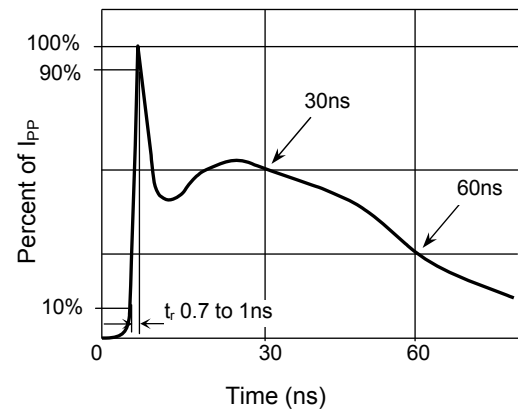
**Figure 1. Peak Pulse Power vs. Pulse Duration**



**Figure 2. Power Derating Curve**

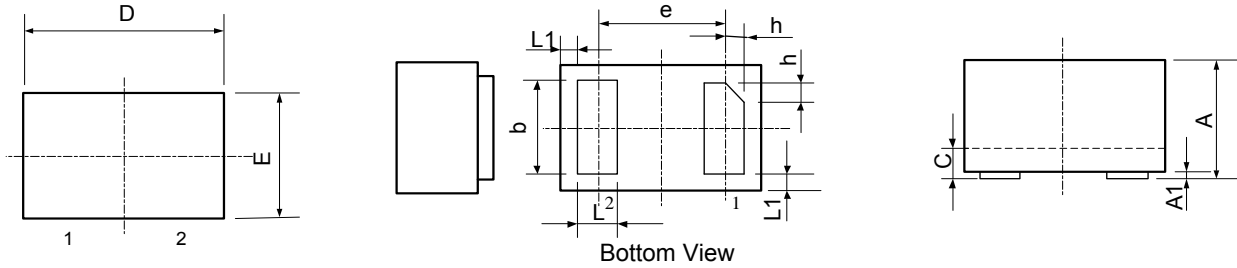


**Figure 3. Pulse Waveform 8/20μs**



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

**Package Outline Dimensions (DNF1006)**



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
GSEZ5B300	DFN1006	M5	Tape & Reel	10,000pcs / Reel