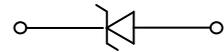


Features

- 130Watts peak pulse power (tp = 8/20µs)
- Unidirectional configuration
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Protection one data/power line to:
 - IEC 61000-4-2 ±30kV contact ±30kV air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 8.7A (8/20µs)



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°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	130	W
ESD Contact/air Discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (t _P = 8/20µS)	I _{PP}	8.7	A
Junction Temperature	T _J	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Stand-off Voltage	V _{RWM}	-	-	-	3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	5.0	-	-	V
Reverse Leakage Current	I _R	V _R =3.3V	-	-	1	uA
Clamping Voltage (IEC 61000-4-5)	V _C	I _{PP} =8.7A	-	12.3	15	V
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	53	-	pF

Typical Characteristic Curves

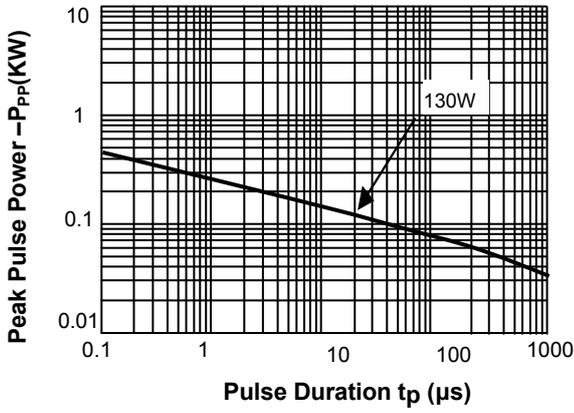


Figure 1. Peak Pulse Power Rating Curve

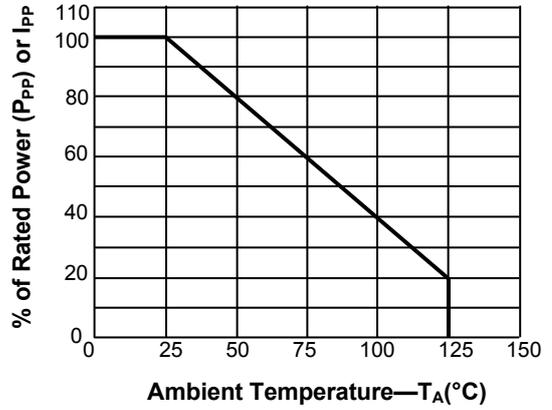


Figure 2. Pulse Derating Curve

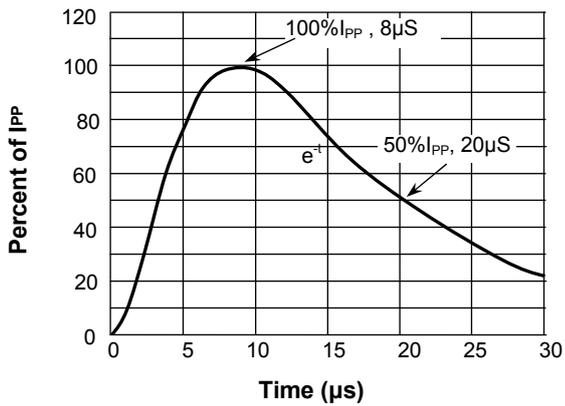


Figure 3. Pulse Waveform-8/20μs

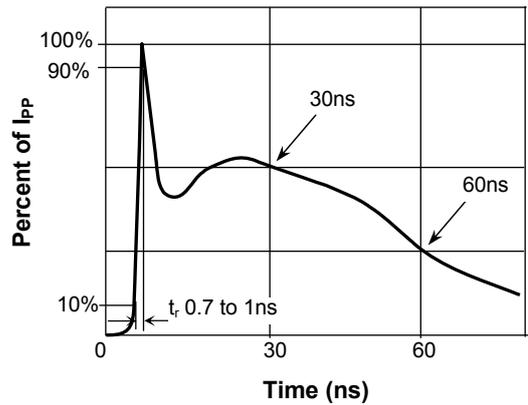
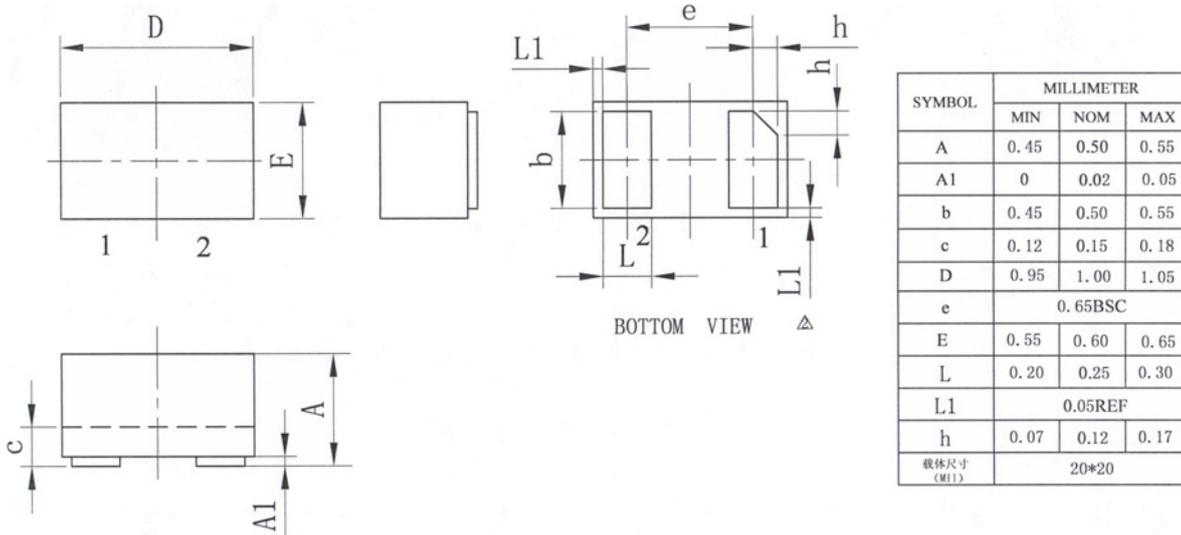


Figure 4. Pulse Waveform-ESD (IEC61000-4-2)

Package Outline Dimensions (DFN1006)



Order Information

Device	Package	Marking	Quantity	HSF Status
GSEZ3U530	DFN1006	5U	10,000pcs / reel	RoHS compliant