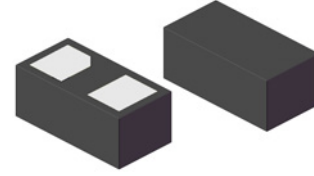
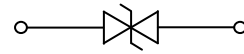


Features

- 70W peak pulse power (tp=8/20µs)
- Tiny DFN0603 package
- Bidirectional configuration
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Medium capacitance (CJ=12pF typ.)
- 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) 9A (8/20µs)
- RoHS compliant



DFN0603



Schematic Diagram

Applications

- Audio Lines, Speakers, Headsets, Microphone Protection
- Human Interface Devices (Keyboards, Touchpads, Buttons)

Absolute Maximum Ratings (TA=25°C unless otherwise specified)

Parameter	Symbol	Max.	Unit
Peak Pulse Power (Tp=8/20µS)	P _{PP}	70	W
ESD Contact/Air Discharge (IEC-61000-4-2)	V _{ESD}	30	kV
Peak Pulse Current (tp=8/20µS)	I _{PP}	9	A
Junction Temperature	T _J	-55 To +125	°C
Storage Temperature	T _{STG}	-55 To +150	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	3.4	-	-	V
Reverse Leakage Current	I _R	V _R =3.3V	-	-	0.2	µA
Clamping Voltage (IEC61000-4-5)	V _C	I _{PP} =9A	-	-	8	V
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	12	-	pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

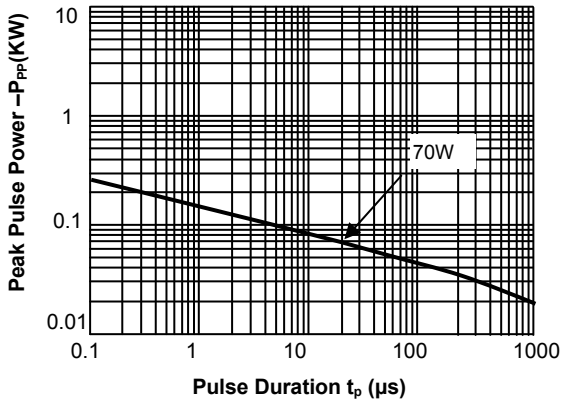


Fig.2 Pulse Derating Curve

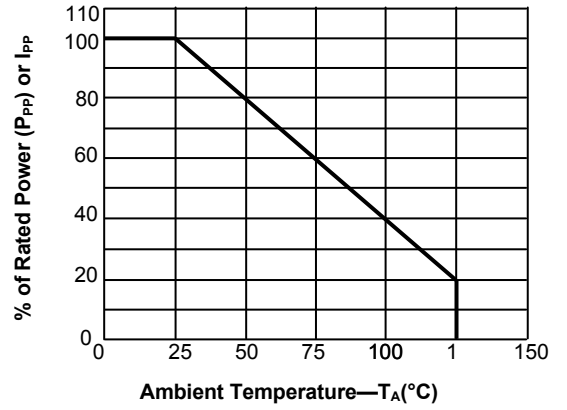


Fig.3 Pulse Waveform-8/20 μs

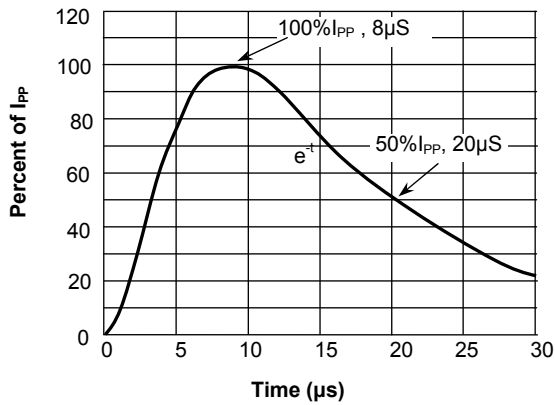
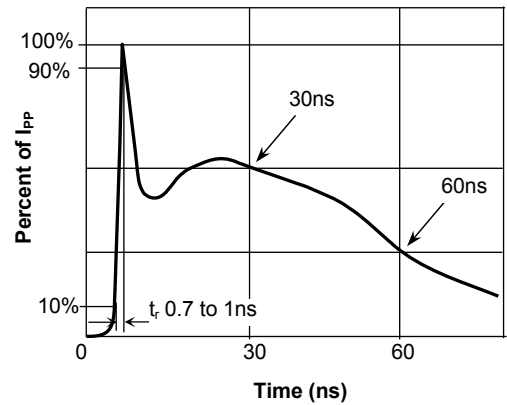
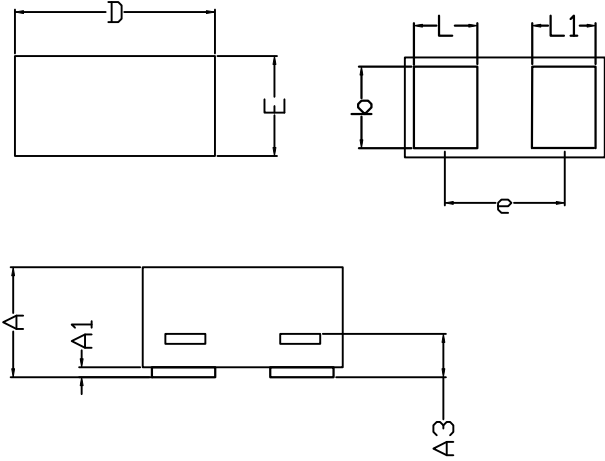


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Package Outline Dimensions DFN0603



Symbol	Dimensions in millimeters		
	Min	N	Max
A	0.23	-	0.33
A1	0.00	-	0.05
A3	0.102 REF		
D	0.55	0.60	0.65
E	0.25	0.30	0.35
b	0.215	0.245	0.275
L	0.13	0.18	0.23
L1	0.13	0.18	0.23
e	0.355 BSC		

Ordering Information

MPN	Package	Marking	Quantity	HSF Status
GSEN3B120	DFN0603	B	10,000pcs / Reel	RoHS compliant