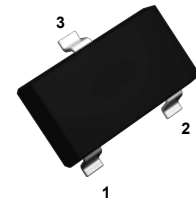
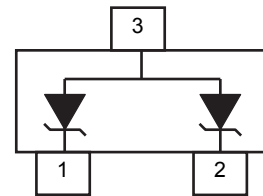


Features

- 320 Watts peak pulse power ($t_P = 8/20\mu s$)
- SOT-23 package
- Protects one bidirectional or two unidirectional lines
- Fast response time, typically < 1 ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 30kV$ (Air) ESD protection
- IEC 61000-4-2 $\pm 30kV$ (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- RoHS compliant



SOT-23



Schematic Diagram

Applications

- Cellular Handsets and Accessories
- Portable Electronics
- Control & Monitoring Systems
- Servers, Notebooks, and Desktop PCs
- Set-Top Box
- Communication Systems

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}	320	W
Peak Pulse Current ($T_P = 8/20\mu S$)	I_{PP}	20	A
Junction Temperature	T_J	-55 to +150	$^\circ C$
Storage Temperature	T_{STG}	-55 to +150	$^\circ C$

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

Parameter	Symbols	Conditions	Min	Typ	Max	Units
Reverse stand-off Voltage	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6	-	7.4	V
Reverse Leakage Current	I_R	$V_{RWM}=5V, T=25^\circ C$	-	-	1	μA
Clamping Voltage	V_C	$I_{PP}=10A, T_P=8/20\mu S$	-	-	12	V
Clamping Voltage	V_C	$I_{PP}=20A, T_P=8/20\mu S$	-	-	16	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	70	-	pF

Typical Characteristic Curves

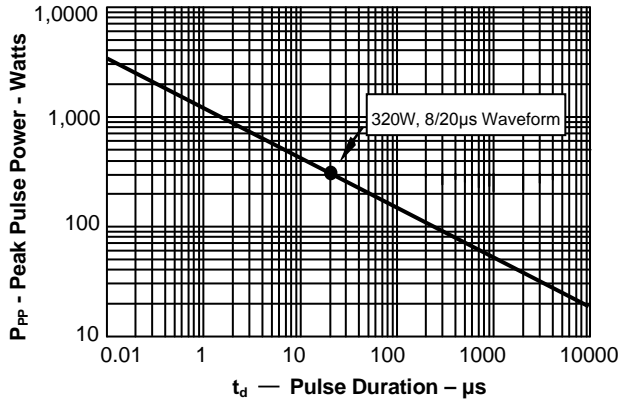


Figure 1. Peak Pulse Power vs Pulse Time

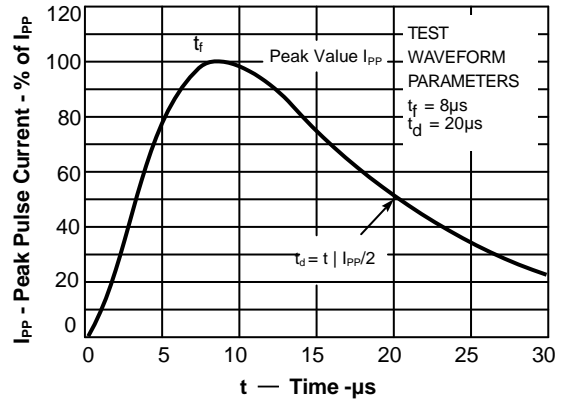


Figure 2. Pulse WaveForm-8/20 μs

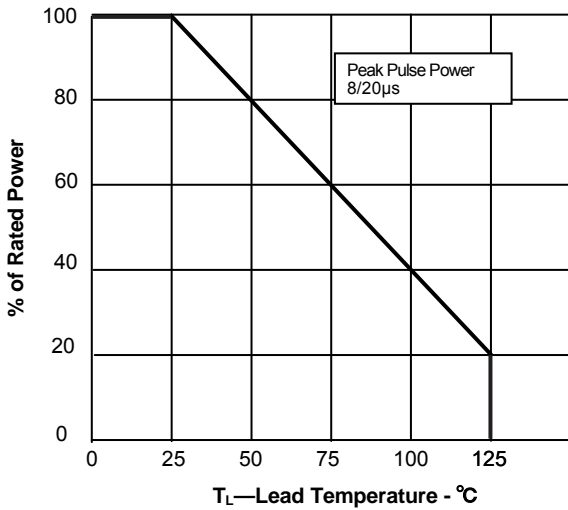


Figure 3. Power Derating Curve

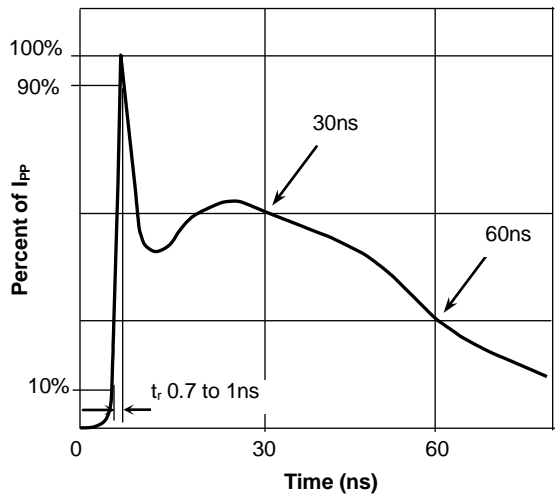
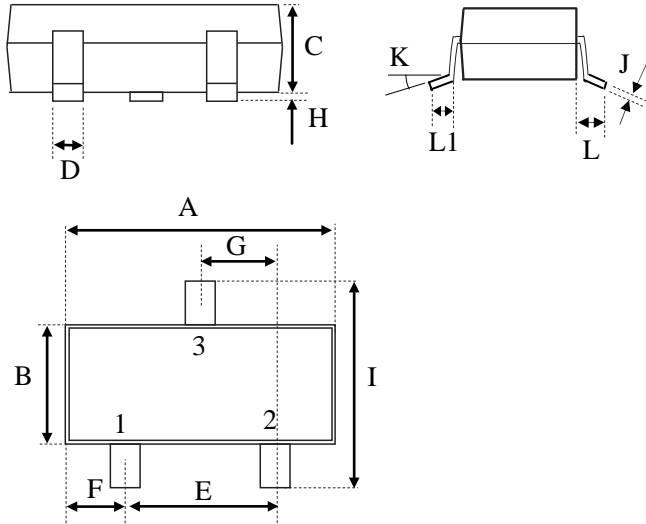


Figure 4. Pulse Waveform-ESD(IEC61000-4-2)

Product Dimensions



SOT-23

Dim	millimeters	
	min	max
A	2.80	3.04
B	1.20	1.40
C	0.89	1.11
D	0.37	0.50
E	1.78	2.04
F	0.45	0.60
G	0.89	1.02
H	0.013	0.100
I	2.10	2.50
J	0.085	0.177
K	0°	10°
L	0.45	0.60
L1	0.30	0.60

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
GSEC5U700	SOT-23	5M2	Tape & Reel	3000pcs	RoHS compliant