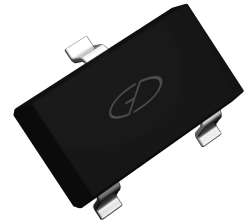
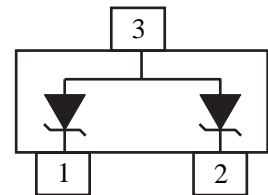


## Features

- 350 Watts peak pulse power ( $t_P = 8/20\mu s$ )
- Protects one bidirectional or two unidirectional lines
- Fast response time, typically  $< 1\text{ ns}$
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2  $\pm 30\text{kV}$  (Air) ESD protection
- IEC 61000-4-2  $\pm 30\text{kV}$  (Contact) ESD protection
- IEC 61000-4-5 25A ( $8/20\mu s$ ) Lightning protection



**SOT-23**



**Schematic Diagram**

## Applications

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

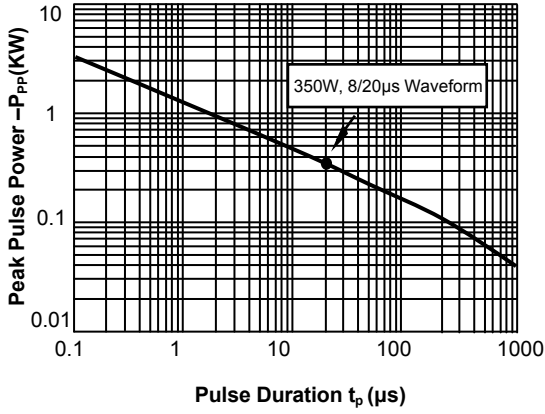
## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Max.	Unit
Peak Pulse Power ( $t_P=8/20\mu s$ )	$P_{PP}$	350	W
Peak Pulse Current ( $t_P=8/20\mu s$ )	$I_{PP}$	25	A
Operating Temperature	$T_J$	-55 To +125	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 To +150	$^\circ\text{C}$

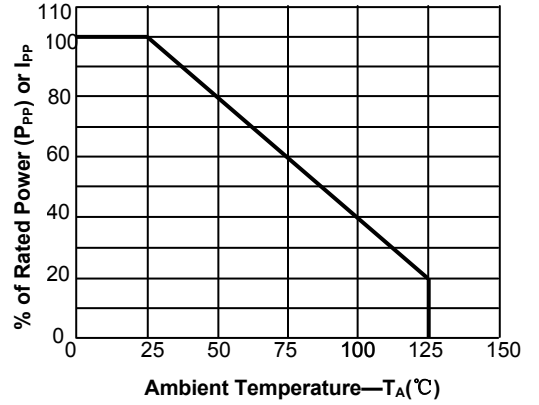
## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1\text{mA}$	4	5	-	V
Reverse Leakage Current	$I_R$	$V_{RWM}=3.3\text{V}$	-	-	1	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP}=25\text{A}$ , $T_P=8/20\mu s$	-	-	14	V
Junction Capacitance	$C_J$	$V_R=0\text{V}$ , $f=1\text{MHz}$	-	200	-	pF

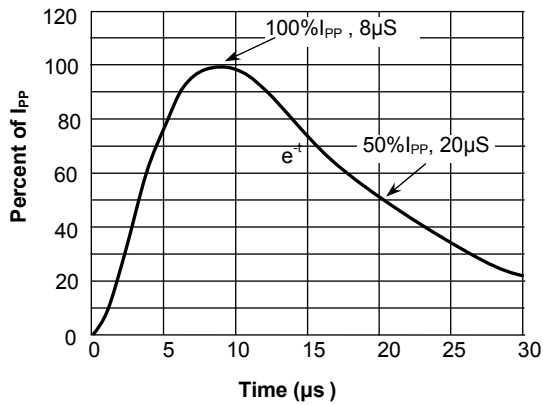
**Typical Characteristic Curves**



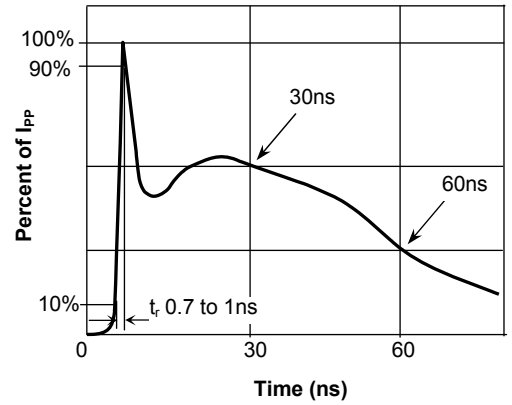
**Figure 1. Peak Pulse Power Rating Curve**



**Figure 2. Pulse Derating Curve**



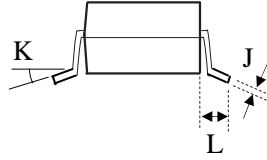
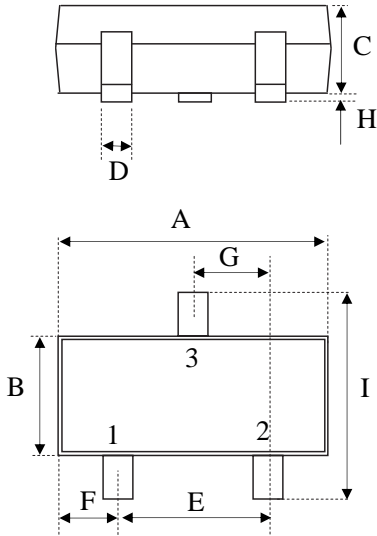
**Figure 3. Pulse Waveform-8/20μs**



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

**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

**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
GSEC3U2000	SOT-23	3M2	Tape & Reel	3000pcs	RoHS compliant