

## Features

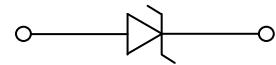
- 360W peak pulse power ( $t_p = 8/20\mu s$ )
- Fast response time, typically < 1 ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2  $\pm 30kV$  (Air) ESD protection
- IEC 61000-4-2  $\pm 30kV$  (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection



SOD-323

## Applications

- Laptop computers
- Cellular phones
- Digital cameras
- PDAs



Schematic Diagram

## Absolute Maximum Ratings

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

Rating	Symbols	Value	Units
Peak Pulse Power ( $T_P=8/20\mu s$ )	$P_{PP}$	360	W
Peak Pulse Current ( $T_P=8/20\mu s$ )	$I_{PP}$	20	A
Operating 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	-	7.8	V
Reverse Leakage Current	$I_R$	$V_{RWM}=5V$	-	-	1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=20A, T_P=8/20\mu s$	-	17	19	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	200	-	pF

## Typical Characteristic Curves

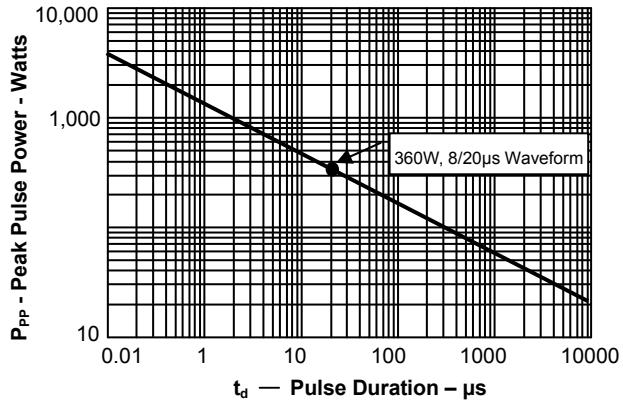


Fig.1 Peak Pulse Power vs Pulse Time

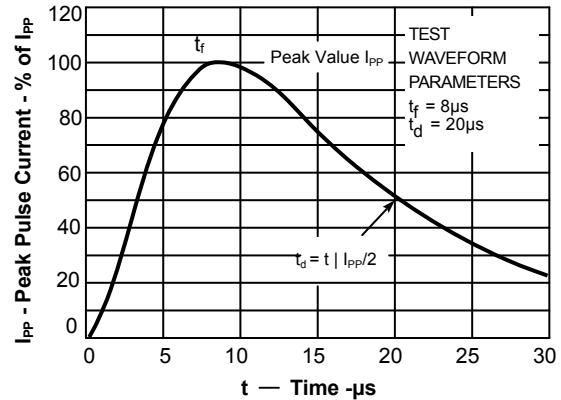


Fig.2 Pulse WaveForm-8/20μs

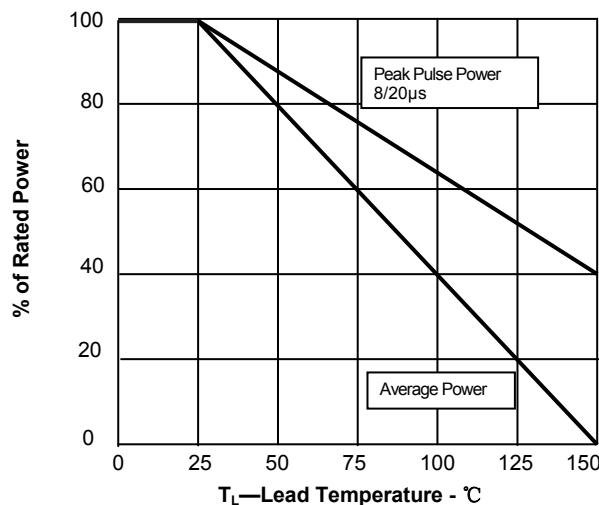


Fig.3 Power Derating Curve

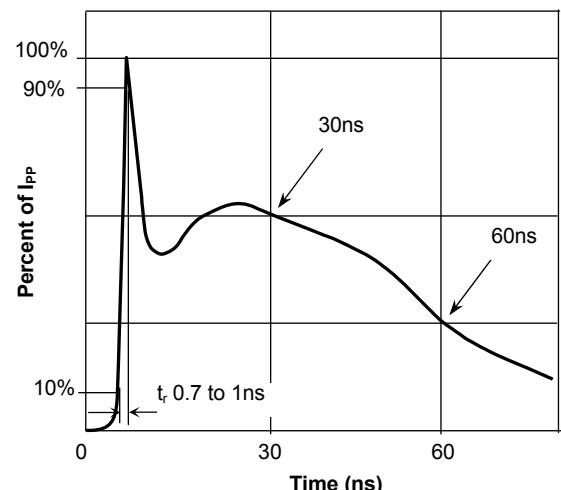
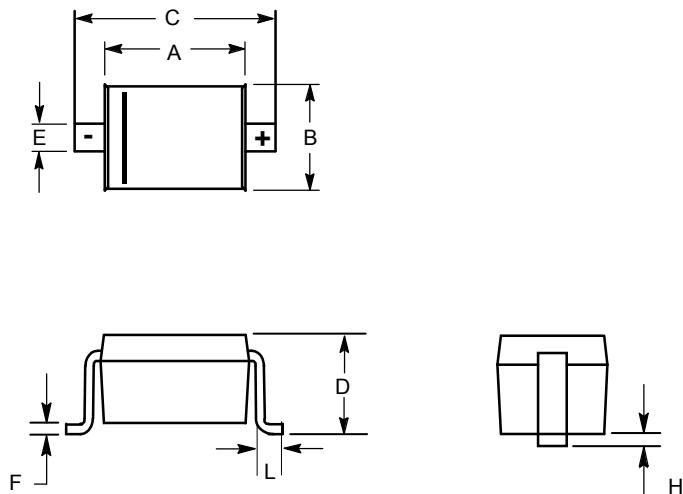


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

### Package Outline Dimensions (SOD-323)



Dim	millimeters	
	min	max
A	1.60	1.90
B	1.15	1.45
C	2.39	2.70
D	0.80	1.10
E	0.25	0.40
FF	0.10	0.20
H	-	0.10
L	0.20	-

### Recommended Pad Layout



### Order Information

MPN	Package	Marking	Quantity	HSF Status
GSEDC5U2000	SOD-323	05W	3000pcs / Reel	RoHS Compliant