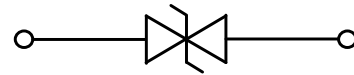


Features

- 350W Peak Pulse Power ($t_p=8/20\mu s$)
- Fast Response Time, Typically < 1ns
- Excellent Clamping Voltage
- Low Leakage Current
- Protection one data/power line to:
- 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



Schematic Diagram

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}	350	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	Symbol	Condition	Min	Typ	Max	Unit
Reverse Stand-off Voltage	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6.0	-	7.8	V
Reverse Leakage Current	I_R	$V_R=5V$	-	-	1	μA
Clamping Voltage	V_C	$I_{PP}=20A, T_P=8/20\mu S$	-	17.5	21	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	60	70	pF

Typical Characteristic Curves

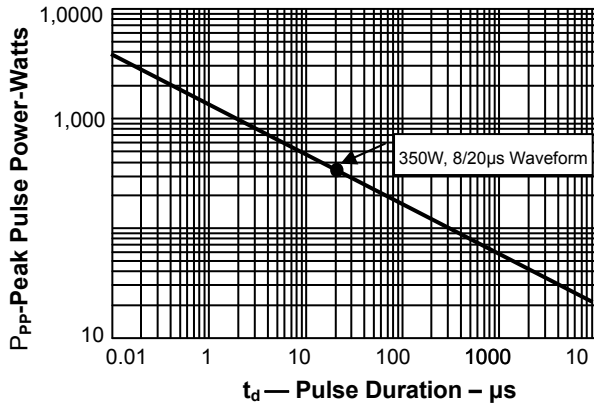


Figure 1. Peak Pulse Power VS Pulse Time

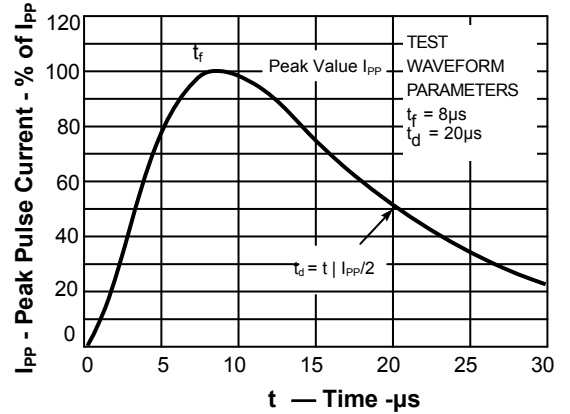


Figure 2. Pulse WaveForm-8/20 μs

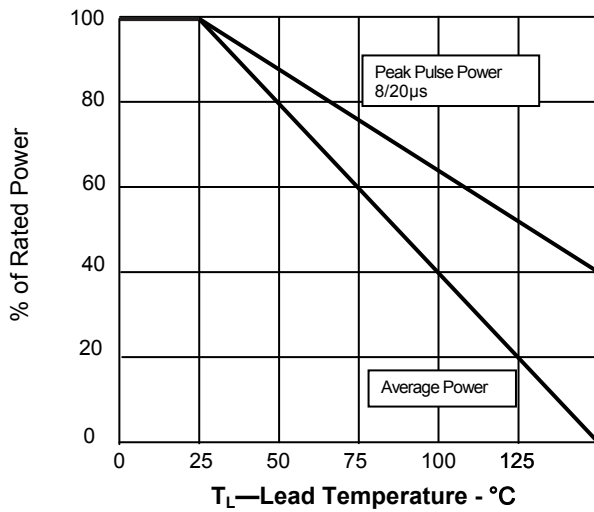


Figure 3. Power Derating Curve

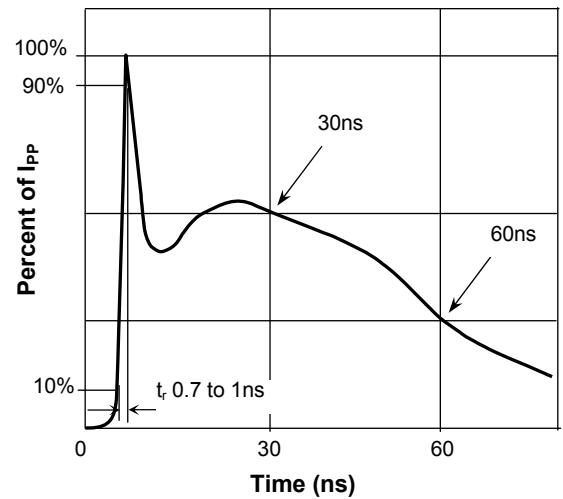
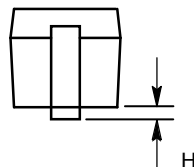
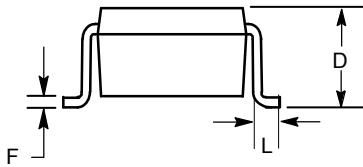
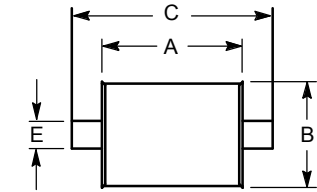


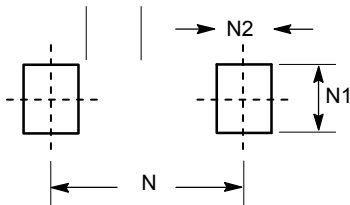
Figure 4. Pulse Waveform ESD (IEC61000-4-2)

Package Outline Dimension SOD-323



Symbol	MILIMETER	
	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
F	0.10	0.20
H	-	0.10
L	0.20	-

Recommended Pad Layout



DIM	MILIMETER
N1	0.80
N2	0.80
N	3.00

Order Information

Device	Package	Marking Code	Carrier	Quantity	HSF Status
GSEDC5B600	SOD-323	05B	Tape & Reel	3000pcs	RoHS Compliant