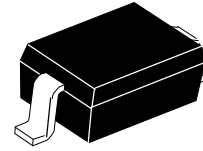


GSEDC3B010

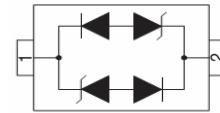
Low Capacitance ESD Protection Diode

Features

- 350W peak pulse power per line (tp=8/20μs)
- SOD-323 package
- Bidirectional configuration
- Protects one power or I/O line
- Low clamping voltage
- RoHS compliant
- Transient protection for data lines to
IEC61000-4-2 (ESD) ±30KV(air), ±30KV(contact);
IEC61000-4-4 (EFT) 40A (5/50ns)
IEC61000-4-5 (surge): 15A (8/20us)



Package: SOD-323



Schematic Diagram

Applications

- Ethernet-10/100/1000 Base T
- Smart Phones
- Handheld- Wireless Systems
- PDAs
- USB Interface

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Rating	Symbols	Value	Units
Peak Pulse Power (T _p =8/20μS)	P _{PP}	350	W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

Part Number	Marking	V _{RWM}	I _R @ V _{RWM}	Min Breakdown Voltage V _{BR} @1mA	Max Clamping Voltage V _c		Typ C _J @0V,1MHz
					@I _p =1A	@I _{PP}	
		V	uA	V	V	V	pF
GSEDC3B010	3B	3.3	1	4.0	7.0	19 @ 20A	1

Low Capacitance ESD Protection Diode

Typical Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise specified)

Fig.1 Peak Pulse Power vs Pulse Time

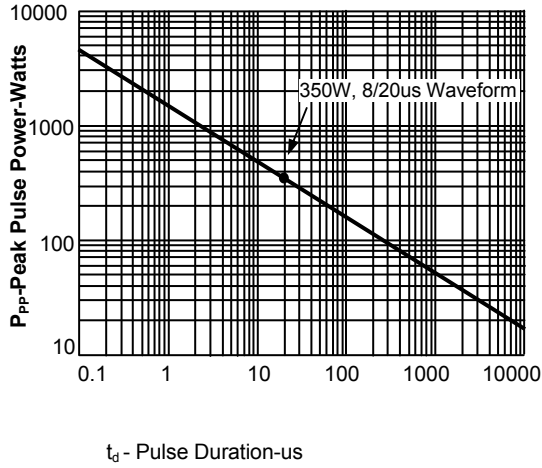
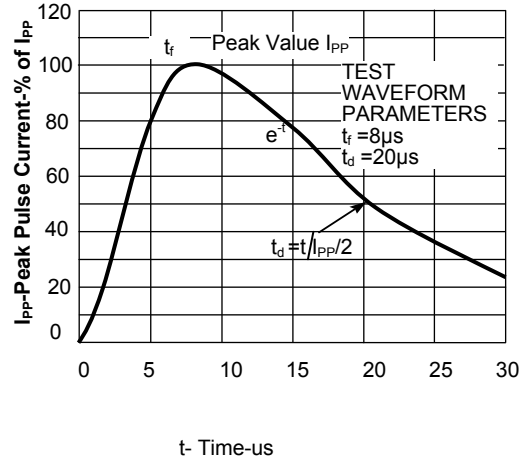
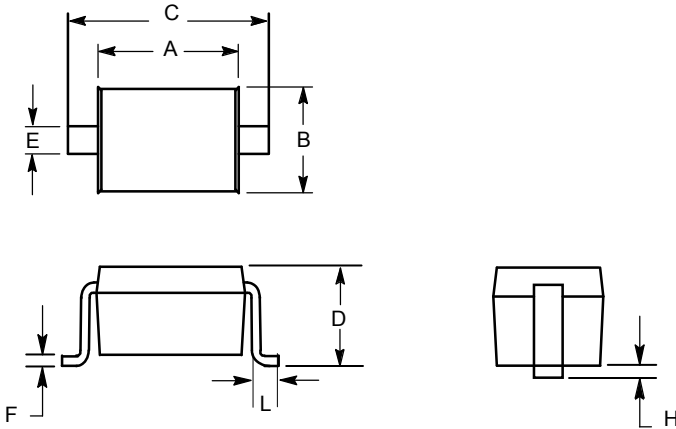


Fig.2 Pulse Waveform



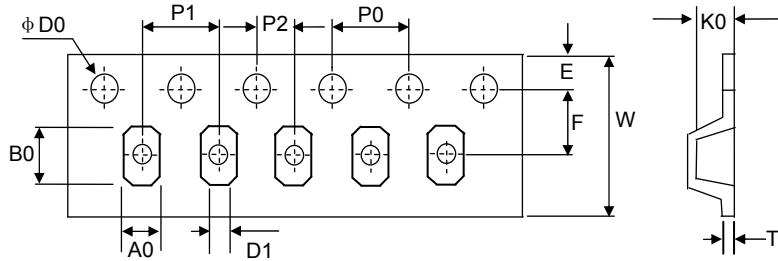
Package Outline Dimensions

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
F	0.10	0.20
H		0.10
L	0.20	-

Package Information



Unit:mm

A0	B0	K0	D1	φ D0	E	F	W	P0	P1	P2	T
1.52±0.10	2.90±0.10	1.35±0.10	1.0±0.25	1.0±0.10	1.75±0.10	3.50±0.05	8.00±0.10	4.00±0.10	4.00±0.10	2.0±0.05	0.24-0.27

Order Information

Device	Package	Carrier	Quantity	HSF Status
GSEDC3B010	SOD-323	Tape & Reel(7")	3000pcs	RoHS compliant