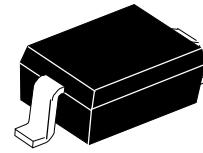
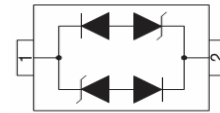


Features

- 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

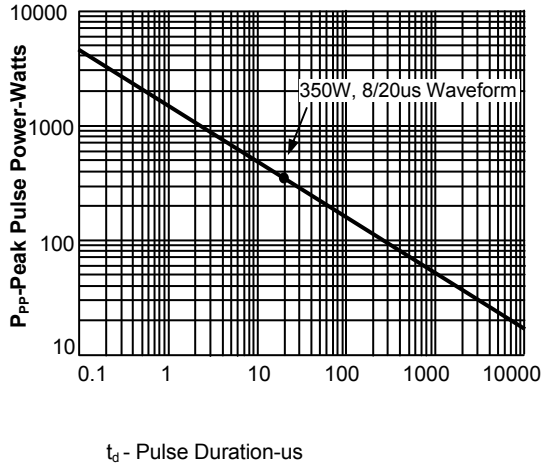
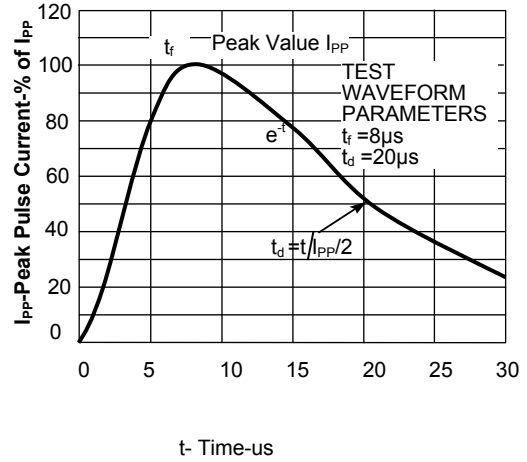
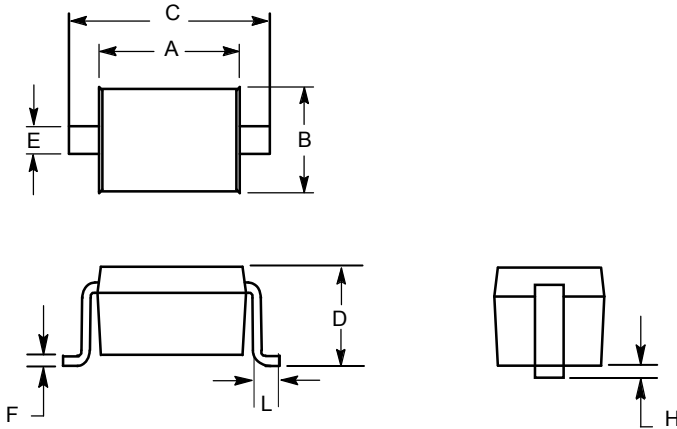


Fig.2 Pulse Waveform



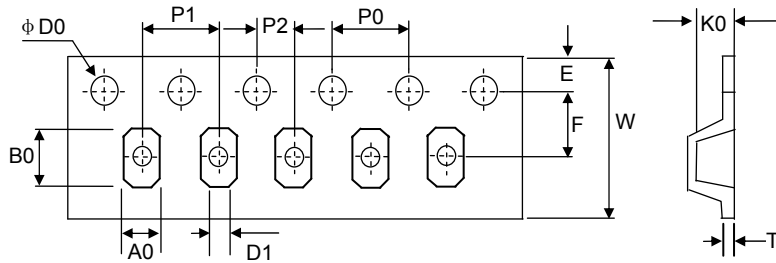
Package Outline Dimensions

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 |