



SOD-323

Features

- 350 Watts Peak Pulse Power per Line (tp = 8/20µs)
- Bidirectional Configuration
- Protects One Power or I/O Port
- ESD Protection > 40 kilovolts
- Low Clamping Voltages
- Ultra Low Capacitance: 1.0 pF Typical

IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5(Surge): 20A, 8/20μs

Mechanical Characteristics

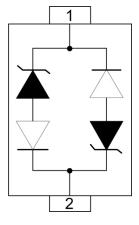
- Molded JEDEC SOD-323 package
- Weight 10 milligrams (Approximate)
- Flammability rating UL 94V-0
- 8mm Tape and Reel Per EIA Standard 481
- Device Marking: Marking Code
- RoHS Compliant

Applications

- Ethernet 10/100/1000 Base T
- Cellular Phones
- Handheld Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

Applications





BIDIRECTIONAL

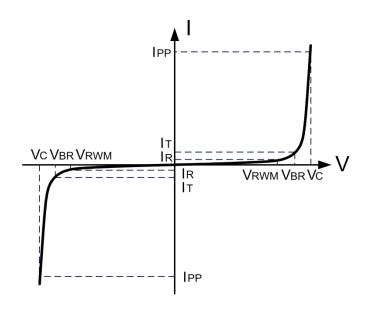


Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20μs) - See Figure 1	P _{PP}	350	Watts
Operating Temperature	TJ	-55 to + 150	°C
Storage Temperature	Тѕтс	-55 to +150	°C

Electrical Parameters (T=25℃)

Symbol	Parameter			
I PP	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ IPP			
VRWM	Working Peak Reverse Voltage			
IR	Maximum Reverse Leakage Current @ Vким			
V _{BR}	Breakdown Voltage @ I⊤			
lτ	Test Current			
lF	Forward Current			
VF	Forward Voltage @ I _F			



Electrical characteristics

PART NUMBER (See Note 1 & Note 2)	RATED STAND-OFF VOLTAGE V _{WM} (Volts)	MINIMUM BREAKDOWN VOLTAGE @ 1mA V _{BR} (Volts)	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ IP = 1A V _c (Volts)	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @8/20µs VC @ IPP	MAXIMUM LEAKAGE CURRENT @V _{WM} Id(μA)	TYPICAL CAPACITANCE @0V, 1 MHz C(pF)
CSE3.3BLS323	3.3	4.0	7.0	19.0V @ 20.0A	1	1

Note 1: Part numbers with an additional "B" suffix are bidirectional devices

Note 2: For Bidirectional Devices Only: Electrical characteristics apply in both directions



Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

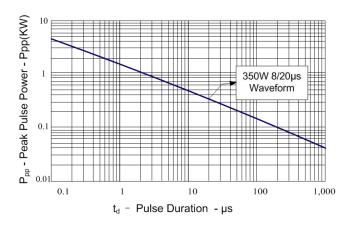


Figure 2: Power Derating Curve

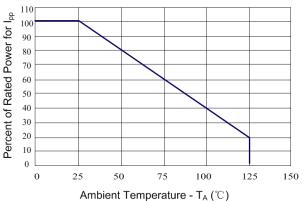


Figure 3: Clamping Voltage vs. Peak Pulse Current

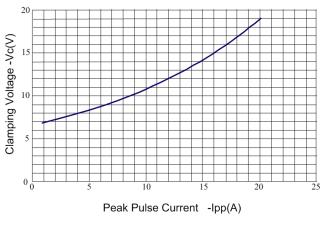


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

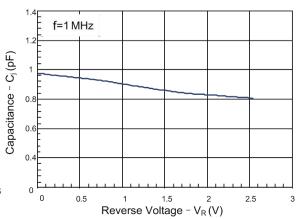


Figure 5: Pulse Waveform

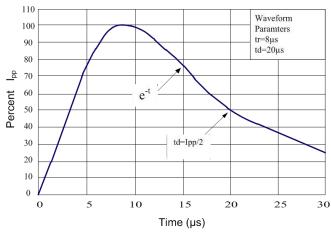
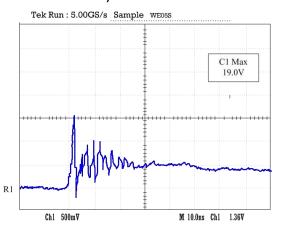


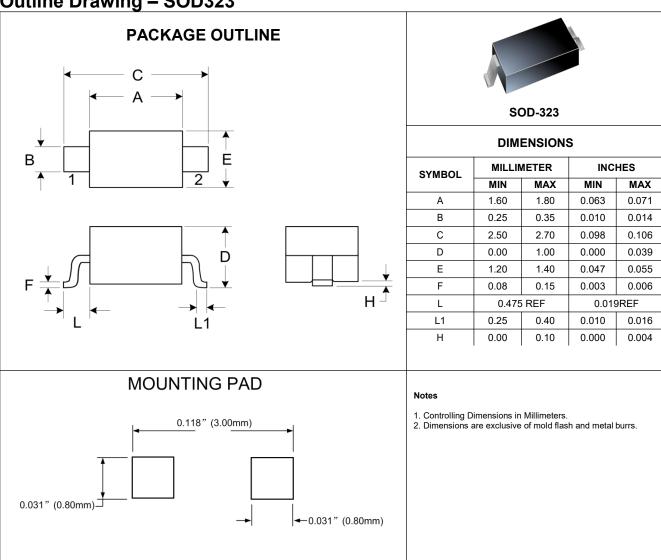
Figure 6: ESD Clamping(8kV Contact per IEC 61000-4-2)



CSE3.3BLS323

Transient Voltage Suppressor

Outline Drawing - SOD323



Package Information

Qty: 3k/Reel



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