

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): 10A, 8/20µs

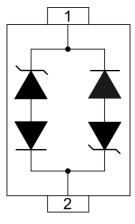
Mechanical Characteristics

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

PIN Configuration

Applications

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



BIDIRECTIONAL





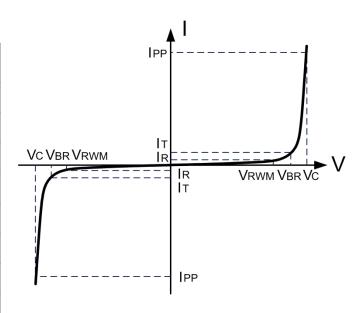


Absolute Maximum Rating

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

Electrical Parameters (T=25°C)

Symbol	Parameter			
РР	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ IPP			
VRWM	Working Peak Reverse Voltage			
Ir	Maximum Reverse Leakage Current @ VRWM			
VBR	Breakdown Voltage @ I⊤			
lτ	Test Current			
lf	Forward Current			
VF	Forward Voltage @ I⊧			



Electrical characteristics

PART NUMBER (See Note 1 & Note 2)	DEVICE MARKING	RATED STAND-OFF VOLTAGE V _{WM} (Volts)	MINIMUM BREAKDOWN VOLTAGE @ 1mA VBR(Volts)	$\begin{array}{l} \mbox{MAXIMUM} \\ \mbox{CLAMPING} \\ \mbox{VolTAGE} \\ \mbox{(See Fig. 2)} \\ \mbox{@ IP = 1A} \\ \mbox{V}_c(\mbox{Volts}) \end{array}$	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @8/20µs VC @ IPP	MAXIMUM LEAKAGE CURRENT @Vwm Id(µA)	TYPICAL CAPACITANCE @0V, 1 MHz C(pF)
CSE15BLS323	BB	15.0	16.7	24.0	31.8V @ 10.0A	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.



CSE15BLS323

Transient Voltage Suppressor

Typical Characteristics

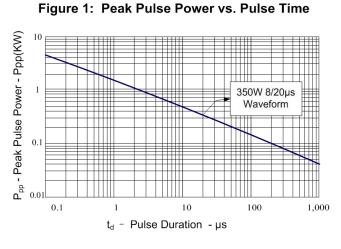


Figure 2: Power Derating Curve

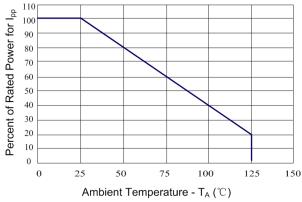
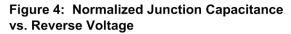
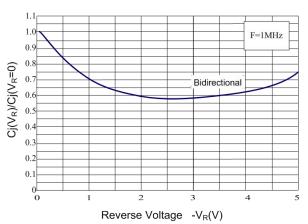


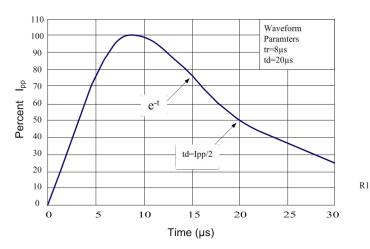
Figure 3: Clamping Voltage vs. Peak Pulse Current

Peak Pulse Current - Ipp(A)









30

2:

20

15

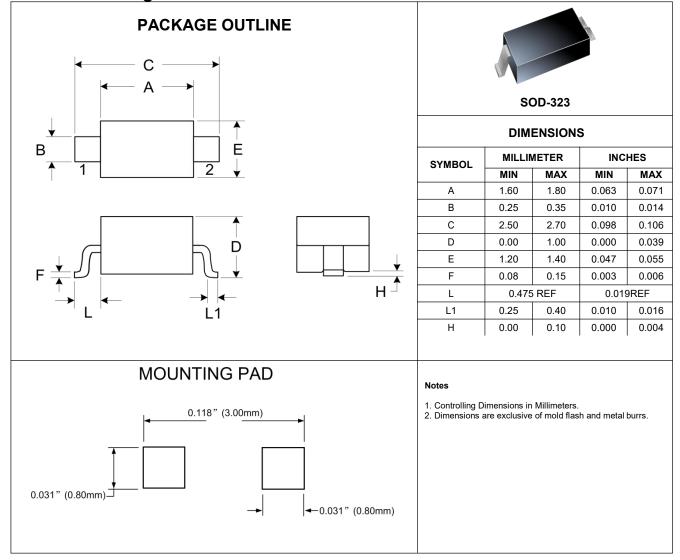
0

Clamping Voltage -Vc(V)





Outline Drawing – SOD-323



Package Information

Qty: 3k/Reel





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