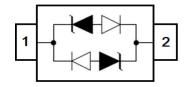
ESD Protection Device

multicomp PRO



Device Schematic & PIN Configuration



RoHS Compliant

Description

The HxxxD3xVxBL series are low capacitance bidirectional electro static discharge (ESD) protection diodes in small surface-mounted device (SMD) plastic packages designed to protect one data line from the damage caused by ESD.

Applications

- Ethernet 10/100/1000 Base T
- · Handheld Wireless Systems
- USB Interface

Features

- 1 Channel of ESD Protection (Bi-directional)
- Peak Pulse Power :Ppp = 350W (tp=8/20 us)
- Reverse Working Voltage: 3.3V thru 36V
- · Low Leakage Current
- · Low Clamping Voltage
- Low Capacitance :0.8pF (Typ)
- IEC 61000-4-2 (ESD) :±27kV(Contact) / ±30kV(Air)

Mechanical Data

- · Case: SOD323 Package.
- · Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0
- Terminals:Matte tin plated,solderable per MIL-STD-750, method 2026

Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Absolute Ratings						
Parameter	Symbol	Value	Unit			
Peak Pulse Power Dissipation (8/20 us)	Ppp	350	W			
ESD Protection- Contact (Standard IEC 61000-4-2)	Vesd	±27	k V			
ESD Protection- Air (Standard IEC 61000-4-2)	VESD	±30	K V			
Operating Temperature Range	TJ	-55 to +125				
Storage Temperature Range	Тѕтс	-55 to +150	°C			
Soldering Temperature, t max =10s	T∟	260				

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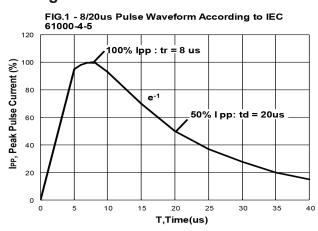
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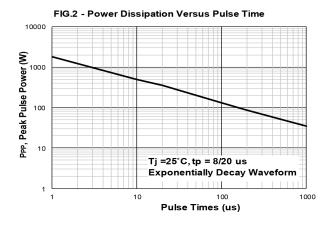


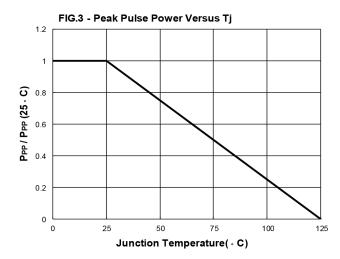
Electrical Characteristics

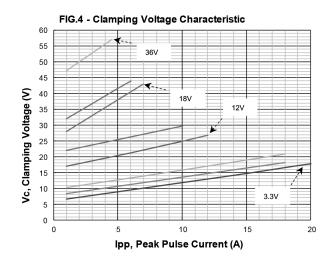
Part Number	Marking Code	Reverse Working Voltage (Max) VRWM(V)	Reverse Breakdown Voltage(Min) VB(V) @IT=1mA	Reverse Current (Max) IR(uA) @VR=VRWM	Reverse Clamping Voltage(Max) VC(V) @IPP=1A	Reverse Clamping Voltage(Max) VC(V) @IPP=Max.	Peak Pulse Current (Max) IPP(A)	Junction Capacitance (Typ) Cj(pF) @VR=0V, F=1MHz
H20D33V3BL	СС	3.3	4	5	7	20	20	
H18D35V0BL	AC	5	6	1	9.8	20	18	
H12D312VBL	DC	12	13.3	1	19	28.6	12	0.8
H06D324VBL	HC	24	26.7	1	43	56	6	
H4A5D336VBL	IC	36	40	1	60	75	4.5	

Rating and Characteristic Curves









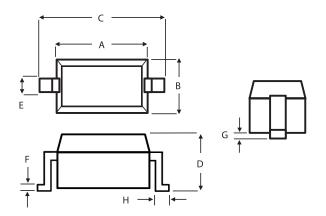
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ESD Protection Device

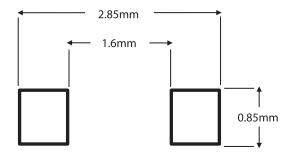


Package Outline Dimensions



SOD323 Package			
Dim	Min	Max	
Α	1.6	1.8	
В	1.2	1.4	
С	2.5	2.7	
D		1	
Е	0.25	0.35	
F	0.08	0.15	
G		0.1	
Н	0.25	0.4	

Suggested Soldering Pad Layout



Part Number Table

Description	Part Number
ESD Protection Diode, Bi-Directional, 20A, 20V, SOD-323	H20D33V3BL
ESD Protection Diode, Bi-Directional, 18A, 20V, SOD-323	H18D35V0BL
ESD Protection Diode, Bi-Directional, 12A, 28.6V, SOD-323	H12D312VBL
ESD Protection Diode, Bi-Directional, 6A, 56V, SOD-323	H06D324VBL
ESD Protection Diode, Bi-Directional, 4.5A, 75V, SOD-323	H4A5D336VBL

Dimensions: Millimetres

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