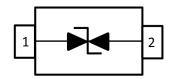
ESD Protection Device

multicomp PRO



Device Schematic & PIN Configuration



RoHS Compliant

Description

The H08D35V0B is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability and low leakage. This device has been specifically designed to protect sensitive components which are connected to data and transmission lines from overvoltage caused by ESD (electrostatic discharge).

Applications

- · Computers and peripherals
- · Communication system
- · Audio and video equipment
- · Portable electronics
- · Cellular handsets and accessories

Features

- 1 Channel of ESD Protection (Bi-directional)
- Peak Pulse Power :Ppp = 125W (tp=8/20 us)
- Reverse Working Voltage : 5V
- · Low Leakage Current
- · Low Clamping Voltage
- IEC 61000-4-2 (ESD) :±27kV(Contact) / ±30kV(Air)

Mechanical Data

- Case: SOD323 Package
- Case Material: "Green" Molding Compound UL FlammabilityClassification 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)	P _{PP}	125	W
Peak Pulse Current (8/20 us)	IPР	8	А
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	Тл	-55 to +125	
Storage Temperature Range	Тѕтс	-55 to +150	°C
Soldering Temperature, t max =10s	T∟	260	

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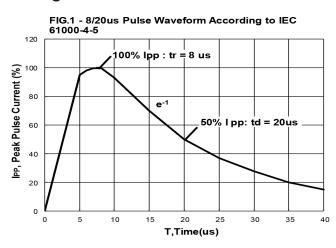
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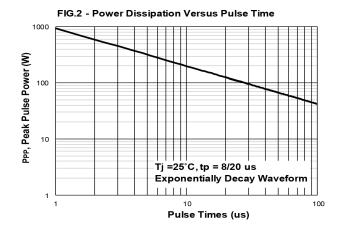


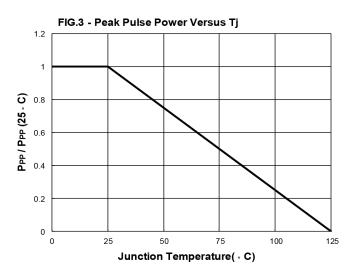
Electrical Characteristics

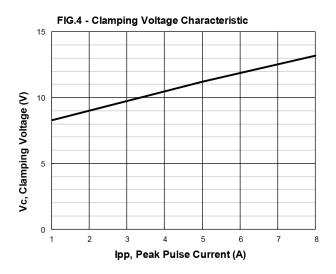
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		VRWM	-		5	V
Reverse Breakdown Voltage	I⊤= 1mA	VB	5.6		7.8	V
Reverse Current	V _R = 5V	lr		_	1	uA
Reverse Clamping Voltage	IPP = 1A (8/20µs)	Vc	-	_	11	V
	IPP = 8A (8/20µs)				16	
Junction Capacitance	$V_R = 0V, F = 1MHz$	Cj			15	рF

Rating and Characteristic Curves









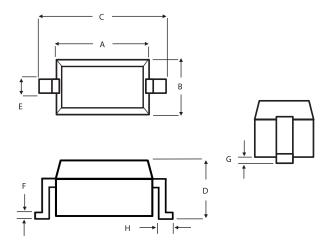
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ESD Protection Device

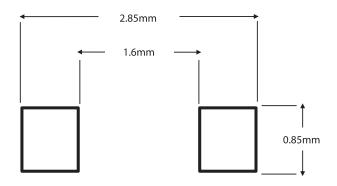


Package Outline Dimensions



SOD323 Package				
Dim	Min	Max		
А	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, 8A, 16V, SOD-32	23 H08D35V0B

Dimensions: Millimetres

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