## ESD Protection Device

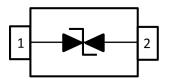
# multicomp PRO

RoHS

**Compliant** 



**Device Schematic & PIN Configuration** 



## Description

The HxxxD3xVxB series has been specifically designed to protect sensitive components which are connected to power data and transmission lines from overvoltage caused by ESD (electrostatic discharge)

## Applications

- · Computers and peripherals
- Communication system
- Notebooks, desktops & servers
- Portable electronics
- · Cellular handsets and accessories

## 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
- 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				
Operating Temperature Range	TJ	-55 to +125				
Storage Temperature Range	Tstg	-55 to +150	°C			
Soldering Temperature, t max =10s	T∟	260				

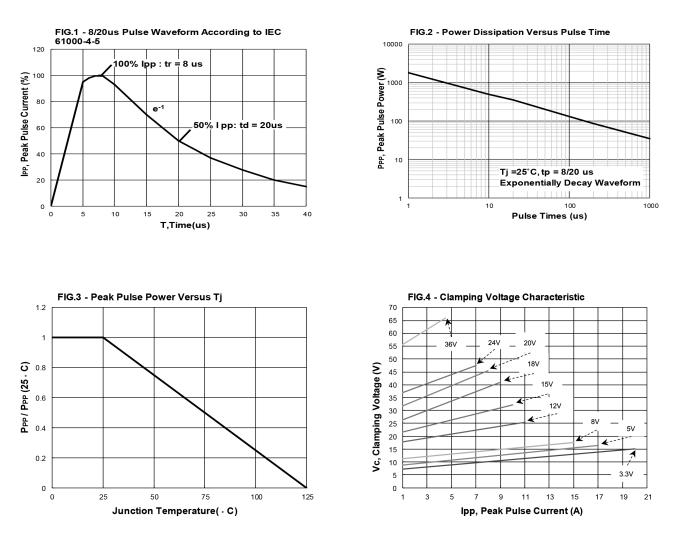
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#### **Electrical Characteristics**

Part Number	Marking Code	Reverse Working Voltage (Max) Vrwм(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
H20D33V3B	2A	3.3	4	40	7.5	16	20	450
H17D35V0B	2B	5	6	10	9.8	18	17	200
H07D324VB	2H	24	26.7	1	43	52	7	50
H4A5D336VB	2N	36	40	1	60	75	4.5	35

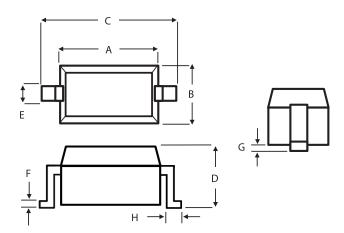
## **Rating and Characteristic Curves**



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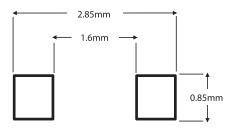


## **Package Outline Dimensions**



SOD323 Package					
Dim	Min	Max			
А	1.6	1.8			
В	1.2	1.4			
С	2.5	2.7			
D		1			
E	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, 16V, SOD-323	H20D33V3B
ESD Protection Diode, Bi-Directional, 17A, 18V, SOD-323	H17D35V0B
ESD Protection Diode, Bi-Directional, 7A, 52V, SOD-323	H07D324VB
ESD Protection Diode, Bi-Directional, 4.5A, 75V, SOD-323	H4A5D336VB

#### **Dimensions : Millimetres**

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