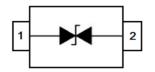
## **ESD Protection Device**





Device Schematic & PIN Configuration



RoHS Compliant

### **Description**

The H08D55V0B is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time.

## **Applications**

- · Computers and peripherals
- · Communication system
- · Audio and video equipment
- · Portable Instrumentation

#### **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
- Junction Capacitance : 15pF (Max)
- IEC 61000-4-2 (ESD) :±30kV(Contact) / ±30kV(Air)

#### **Mechanical Data**

- Case: SOD523 Package
- · Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0
- Terminals: 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	125	W
Peak Pulse Current (8/20 us)	lрр	8	Α
ESD Protection- Contact (Standard IEC 61000-4-2)	Vesd	±30	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	Tι	260	

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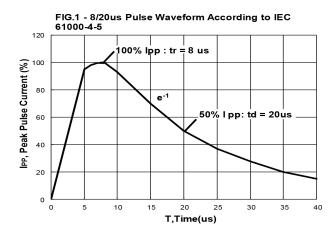
# ESD Protection Device multicomp PRO

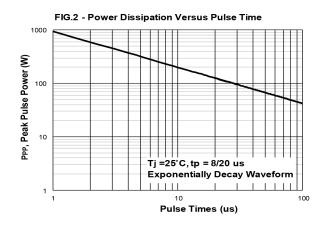


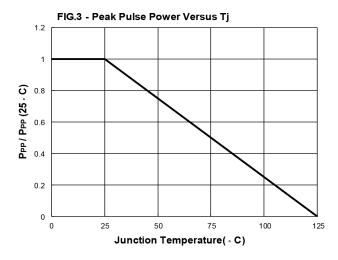
#### **Electrical Characteristics**

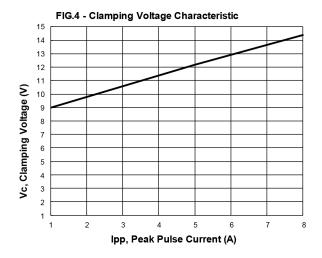
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		Vrwm	-		5	V
Reverse Breakdown Voltage	I⊤= 1mA	Vв	5.6		9	V
Reverse Current	V <sub>R</sub> = 5V	lr		-	1	uA
Reverse Clamping Voltage	IPP = 1A (8/20µs)	Vc	-		11.6	V
	IPP = 8A (8/20µs)				16	
Junction Capacitance	V <sub>R</sub> = 0V, F = 1MHz	Cj		10	15	рF

## **Rating and Characteristic Curves**









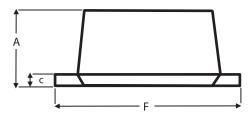
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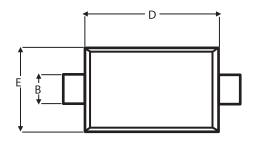


## **ESD Protection Device**



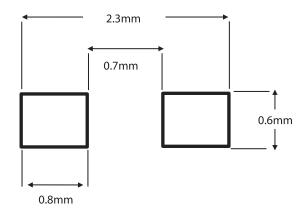
## **Package Outline Dimensions**





SOD523 Package					
Dim	Min	Max			
А	0.5	0.7			
В	0.25	0.35			
С		0.2			
D	1.1	1.3			
Е	0.7	0.9			
F	1.5	1.7			

## **Suggested Soldering Pad Layout**



#### **Part Number Table**

Description	Part Number	
ESD Protection Diode, Bi-Directional, 8A, 16V, SOD-523	H08D55V0B	

Dimensions: Millimetres

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