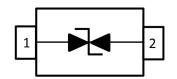
# **ESD Protection Device**





Device Schematic & PIN Configuration



## RoHS Compliant

### Description

The H25D35V0B is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent high surge 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**

- · Audio Phone Jack
- · Handheld Wireless Systems
- USB Interface

### **Features**

- · 1 Channel of ESD Protection (Bi-directional)
- Peak Pulse Power :Ppp = 500W (tp=8/20 us)
- Reverse Working Voltage: 5V
- · Low Leakage Current
- · Low Clamping Voltage
- IEC 61000-4-2 (ESD) :±30kV(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	500	W
Peak Pulse Current (8/20 us)	lрр	25	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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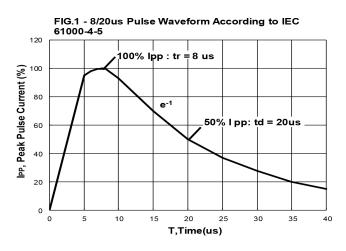
# ESD Protection Device multicomp PRO

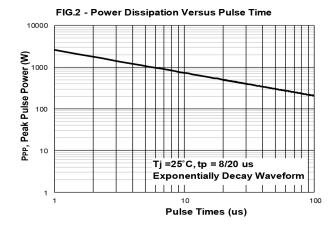


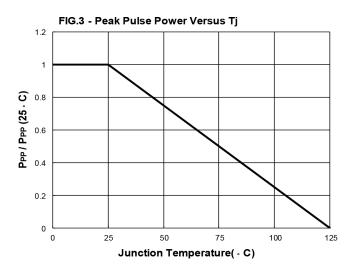
#### **Electrical Characteristics**

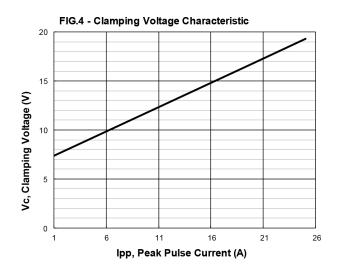
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		VRWM	-		5	V
Reverse Breakdown Voltage	I⊤= 1mA	Vв	5.8		7.8	V
Reverse Current	V <sub>R</sub> = 5V	lr		-	1	uA
Reverse Clamping Voltage	IPP = 1A (8/20µs)	Vc	-		9.8	V
	IPP = 25A (8/20µs)				20	
Junction Capacitance	$V_R = 0V, F = 1MHz$	Cj		33	40	рF

## **Rating and Characteristic Curves**









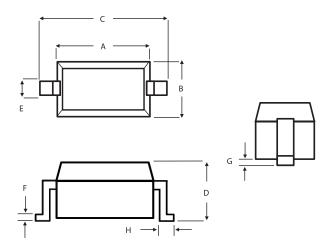
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# **ESD Protection Device**

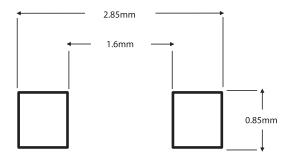


### **Package Outline Dimensions**



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, 25A, 20V, SOD-323	H25D35V0B	

Dimensions: Millimetres

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