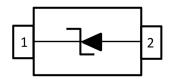
ESD Protection Device





Device Schematic & PIN Configuration



RoHS Compliant

Description

The H90D35V0U is offers superior electrical characteristics such as high surge capability. It is designed to protect sensitive electronic components which are connected to power lines, from over-stress caused by ESD (Electrostatic Discharge).

Applications

- · Power Supply Protection
- · Power Management
- · Notebooks / Desktops / Servers
- · Cell Phone Handsets and Accessories
- Portable Electronics

Features

- 1 Channel of ESD Protection (Uni-directional)
- Peak Pulse Power :Ppp = 1500W (tp=8/20 us)
- 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	1500	W			
Peak Pulse Current (8/20 us)	IPР	90	А			
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	Тл	-55 to +125				
Storage Temperature Range	Тѕтс	°C				
Soldering Temperature, t max =10s	T∟	260				

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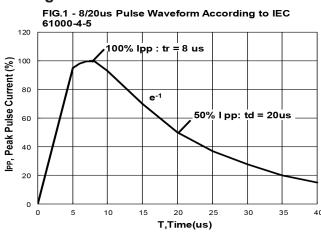
ESD Protection Device multicomp PRO

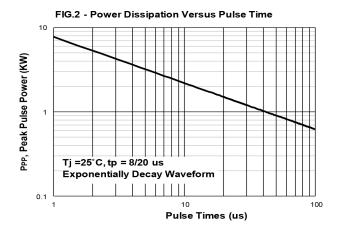


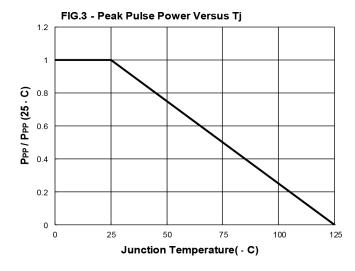
Electrical Characteristics

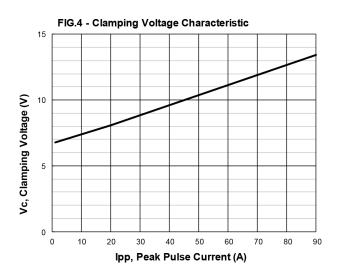
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		VRWM	-		5	V
Reverse Breakdown Voltage	I⊤= 1mA	VB	6			V
Reverse Current	V _R = 5V	lr		_	20	uA
	IPP = 1A (8/20µs)			_	7.5	
Reverse Clamping Voltage	IPP = 20A (8/20µs)	Vc	-		8.5	V
	IPP = 90A (8/20µs)				17	
Junction Capacitance	$V_R = 0V, F = 1MHz$	Cj		800	900	рF

Rating and Characteristic Curves









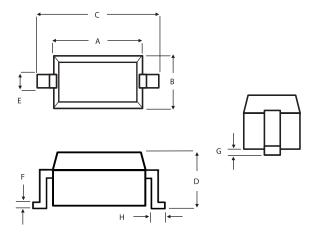
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ESD Protection Device

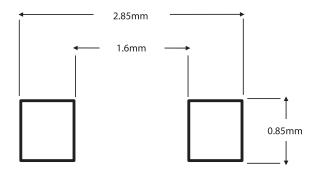


Package Outline Dimensions



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 Array Protection Device, 90A, 17V, DFN-5210	H90D35V0U	

Dimensions : Millimetres

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