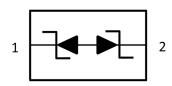
ESD Protection Device



RoHS Compliant

Device Schematic & PIN Configuration





Description

The H04X25V0BU is ultra low capacitance ESD designed to protect high speed data interfaces. This series has been specifically designed to protect sensitive components which are connected to high-speed data and transmission lines from overvoltage caused by ESD (electrostatic discharge).

Applications

- Digital Visual Interface (DVI)
- · Cellular Handsets & Accessories
- · Display / USB / MDDI Ports
- RF Circuits
- · PCI Express

Features

- 1 Channel of ESD Protection (Bi-directional)
- Peak Pulse Power: Ppp = 100W (tp=8/20 us)
- · Reverse Working Voltage: 5V
- · Low Leakage Current
- Ultra low Capacitance : 0.25pF (Typ)

Mechanical Data

- · Case: DFN1006 Package
- · Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0

Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation (8/20 us)	Ppp	100	W
Peak Pulse Current (8/20 us)	lpp	4	Α
ESD Protection- Contact (Standard IEC 61000-4-2)	\/	±20	k V
ESD Protection- Air (Standard IEC 61000-4-2)	Vesd	±25	
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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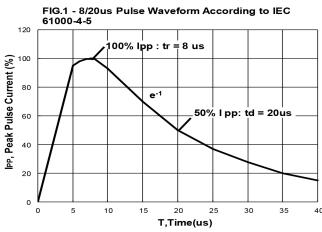
ESD Protection Device multicomp PRO

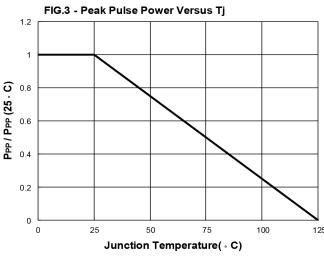


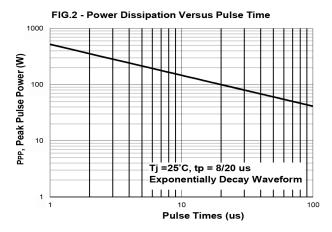
Electrical Characteristics

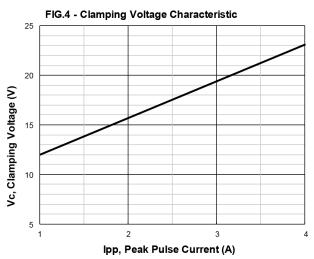
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		VRWM	-		5	V
Reverse Breakdown Voltage	I⊤= 1mA	Vв	6	_	-	V
Reverse Current	V _R = 5V	lr			100	uA
Reverse Clamping Voltage	IPP = 1A (8/20µs)	Vc	-		13	V
	IPP = 4A (8/20µs)				25	
Junction Capacitance	$V_R = 0V, F = 1MHz$	Cj		0.25	0.4	рF

Rating and Characteristic Curves









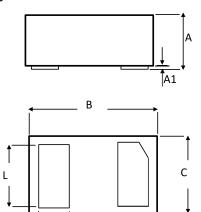
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ESD Protection Device

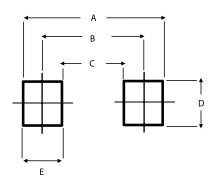


Package Outline Dimensions



DFN1006 Package				
Dim	Min	Max		
А	0.45	0.55		
A1		0.02		
В	0.95	1.05		
С	0.55	0.65		
L	0.45	0.55		
L1	0.2	0.3		

Suggested Soldering Pad Layout



Dim.	Value
Α	1.1
В	0.9
С	0.3
D	0.6
E	0.4

Part Number Table

Description	Part Number	
ESD Protection Diode, Uni-Directional, 4A, 25V, SOT-26	H04X25V0BU	

Dimensions: Millimetres

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