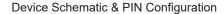
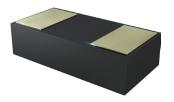
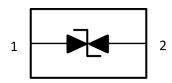
ESD Protection Device



RoHS Compliant







Description

The H04X35V0BU 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 over voltage caused by ESD(electrostatic discharge).

Applications

- USB Data Line Protection, Type-C / 3.0 / 3.1
- High definition multi-media interface (HDMI) 1.4 / 2.0

Features

- · 1 Channel of ESD Protection (Bi-directional)
- Peak Pulse Power :Ppp = 100W (tp=8/20 us)
- Reverse Working Voltage: 5V
- Low Leakage Current
- · Low Clamping Voltage
- Junction Capacitance : 0.3pF (Max)
- IEC 61000-4-2 (ESD) :±20kV(Contact) / ±25kV(Air)

Mechanical Data

- Case: DFN0603 Package
- Case Material: "Green" Molding Compound UL FlammabilityClassification Rating 94V-0

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

Absolute Ratings				
Parameter	Symbol	Value	Unit	
Peak Pulse Power Dissipation (8/20 us)	Ppp	100	W	
Peak Pulse Current (8/20 us)	lрр	4	А	
ESD Protection- Contact (Standard IEC 61000-4-2)	Vesd	±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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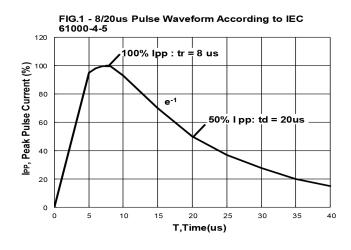
ESD Protection Device multicomp PRO

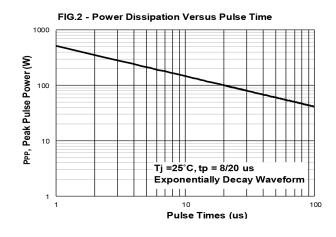


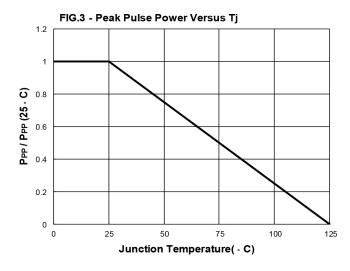
Electrical Characteristics

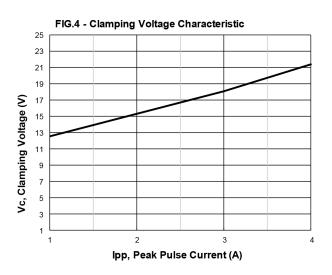
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		VRWM	-	_	5	V
Reverse Breakdown Voltage	I⊤= 1mA	VB	6	-	-	v
Reverse Current	V _R = 5V	lr			0.1	uA
Reverse Clamping Voltage	IPP = 1A (8/20µs)	Vc	-		13	V
	IPP = 4A (8/20µs)				25	
Junction Capacitance	V _R = 0V, F = 1MHz	Cj		0.25	0.3	рF

Rating and Characteristic Curves









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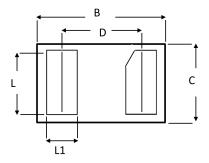


ESD Protection Device



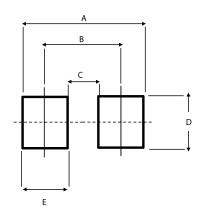
Package Outline Dimensions





DFN0603 Package			
Dim	Min	Max	
А	0.28	0.35	
В	0.58	0.65	
С	0.28	0.34	
L	0.2	0.26	
L1	0.13	0.19	
D	0.36(Typ)		

Suggested Soldering Pad Layout



Dim.	Value
Α	0.64
В	0.4
С	0.16
D	0.34
Е	0.24

Part Number Table

Description	Part Number
ESD Protection Diode, Bi-Directional, 4A, 25V, DFN-1006	H04X35V0BU

Dimensions: Millimetres

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