

Uni-directional ESD Protection Diode

Description

The H02D524VU is designed to protect sensitive semiconductor components from damage or upset due to Electro Static Discharge (ESD).

Features

- 1 Channel of ESD Protection (Uni-directional)
- Peak Pulse Power :Ppp = 80W (tp=8/20 us)
- Reverse Working Voltage: 24V
- Low Leakage Current
- Low Clamping Voltage
- IEC 61000-4-2 (ESD) :±8kV(Contact) / ±15kV(Air)

Applications

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

Peak Pulse Power - 80 Watts Reverse Working Voltage - 24V

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
- Component in accordance to RoHS
- Halogen Free

Note: Products with logo or or are made by HY Electronic (Cayman) Limited.

Ordering Information

- Package :SOD523
- Reel Size :7 (inches)
- Quantity Per Reel :3,000/Tape & Reel
- Quantity One Box :45,000/Tape & Reel
- Quantity One Carton :180,000/Tape & Reel

Marking Information



"5S" = Product Type Marking Code

Package Outline



SOD523 Top View

Device Schematic & PIN Configuration



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

Absolute Ratings

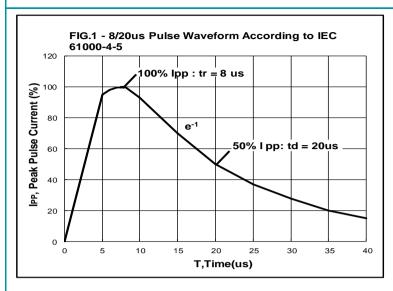
Paramter	Symbol	Value	Unit
Peak Pulse Power Dissipation (8/20 us)	P _{PP}	80	W
Peak Pulse Current (8/20 us)	IPP	2	Α
ESD Protection- Contact (Standard IEC 61000-4-2)	Vesd	±8	kV
ESD Protection- Air (Standard IEC 61000-4-2)	VESD	±15	
Operating Temperature Range	TJ	-55 to +125	° C
Storage Temperature Range	Тѕтс	-55 to +150	° C
Soldering Temperature, t max =10s	T∟	260	° C

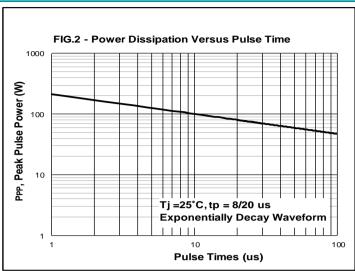
Electrical Characteristics

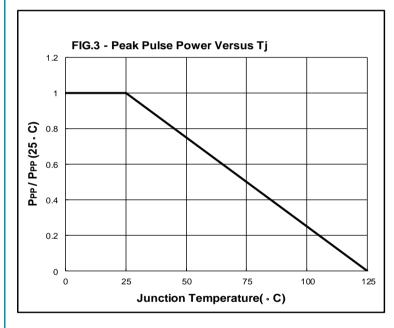
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Working Voltage		Vrwm	-	-	24	V
Reverse Breakdown Voltage	lτ= 1mA	Vв	26	-	-	V
Reverse Current	VR = 24V	I R	-	-	5	uA
Reverse Clamping Voltage	Ipp =2A (8/20µs)	Vc	-	-	42	V
Junction Capacitance	Vr = 0V, F = 1MHz	Cj	-	-	50	рF

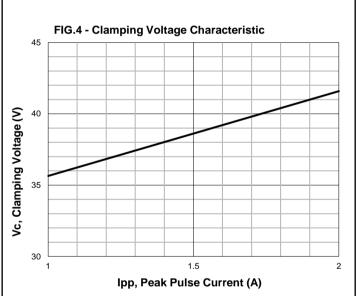


Rating and Characteristic Curves

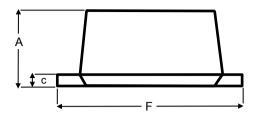


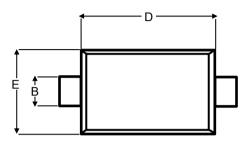






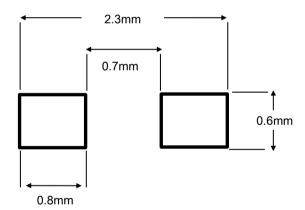
Package Outline Dimensions





SOD523 Package					
Dim	Min	Max			
Α	0.5	0.7			
В	0.25	0.35			
С	-	0.2			
D	1.1	1.3			
E	0.7	0.9			
F	1.5	1.7			
All Dimensions in mm					

Suggested Soldering Pad Layout





Legal Disclaimer Notice

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