



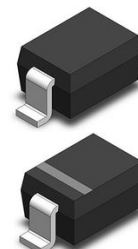
3.3V ESD Array Transient Voltage Suppressors TVS Diode For ESD Protection

Our Product Introduction

for more products please visit us on socaydiode.com

Basic Information

- Place of Origin: Shenzhen Guangdong China
- Brand Name: SOCAY
- Certification: REACH RoHS ISO
- Model Number: SE03D3D01GW
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

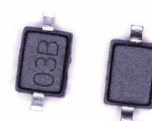


Product Specification

- Product Name: ESD Arrays
- Product Package: SOD-323
- V_{WM} (Max.): 3.3V
- V_{BR} (Min.): 4.0V
- I_R (Max.): 0.1μA
- I_T: 1mA
- V_C (Max.) (I_{PP}=1A): 7.8V
- V_C (Max.) (I_{PP}=17A): 19.5V
- C_J (Typ.): 0.8pF
- Polarity: Bi-directional
- Highlight: 3.3V ESD Array, TVS ESD Array,
3.3V TVS Diode For ESD Protection



More Images



Product Description

3.3V ESD Protection Diode SE03D3D01GW Transient Voltage Suppressors For ESD Protection

ESD Protection Diode DATASHEET: [SE03D3D01GW_v2204.1.pdf](#)

ESD Protection Diode Features:

IEC 61000-4-2 (ESD) ±25kV (air), ±25kV (contact)
IEC61000-4-4 (EFT) 40A (5/50ns)
Protect one I/O line (bidirectional)

Our Product

Low clamping voltage
Working voltage: 3.3V
Low leakage current
Response time is 1ns

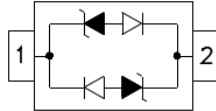
ESD Protection Diode Applications:

Cell Phone Handsets and Accessories
Microprocessor based Equipment
Personal Digital Assistants (PDA's)
Notebooks, Desktops, and Servers
Portable Instrumentation
Peripherals
USB Interface

ESD Protection Diode Mechanical Characteristics:

SOD-323 Package
Flammability Rating: UL 94V-0
Packaging: 3000 PCS / Tape & Reel
High Temperature Soldering Guaranteed: 260 /10s
Reel Size: 7 inch
Material: Halogen Free

ESD Protection Diode Pin Configuration:



ESD Protection Diode Absolute Maximum Ratings ($T_A=25$ unless otherwise specified):

Parameter	Symbol	Value	Units
ESD per IEC 61000-4-2 (Air)	VESD	± 25	KV
ESD per IEC 61000-4-2 (Contact)		± 25	
Operating Temperature Range	TJ	-55 ~ +150	
Storage Temperature Range	TSTG	-55 ~ +150	
Lead Soldering Temperature	TL	260	

ESD Protection Diode Electrical Characteristics ($T_A = 25$ unless otherwise specified):

Part Number	VRWM (V) (Max)	VB (V) (Min)	IT (mA)	VC @ 1A (V) (Max)	VC (V) (Max) (@A)	IR (μ A) (Max)	CJ (pF) (Typ)
SE03D3D01GW	3.3	4.0	1	7.8	19.5 17	0.1	0.8

Electrical Characteristics Curves:

Fig1. Pulse Waveform

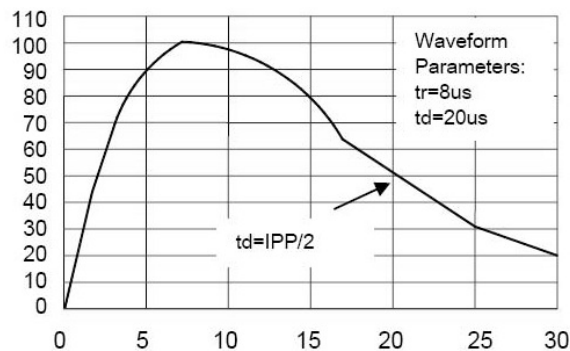


Fig2. Non-Repetitive Peak Pulse Power vs. Pulse Time

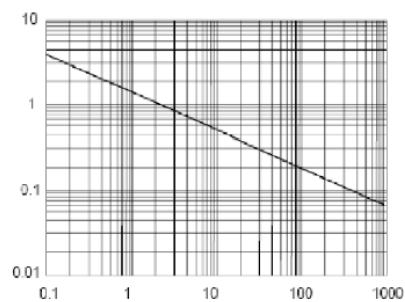


Fig3. Power Derating Curve

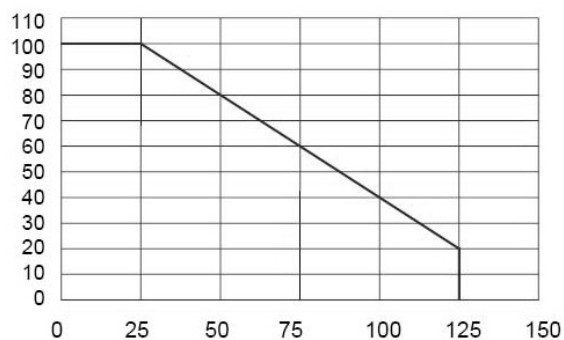
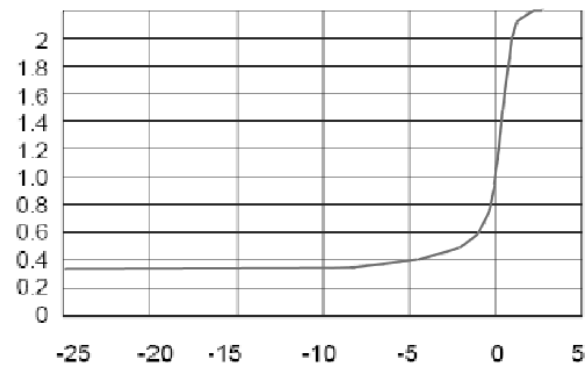
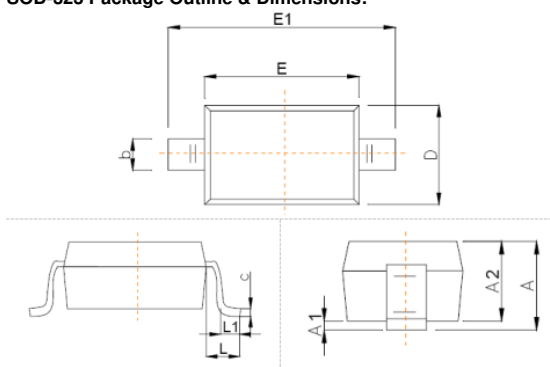


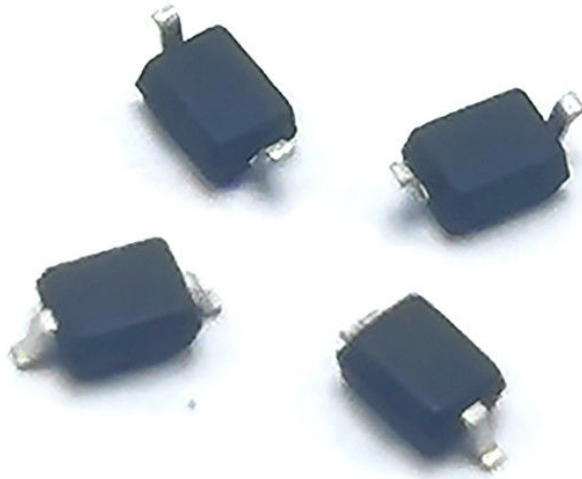
Fig4. Junction Capacitance vs. Reverse Voltage



SOD-323 Package Outline & Dimensions:



Symbol	Dimensions in Millimeters	
	Min.	Max.
A	--	1.00
A1	0.00	0.10
A2	0.80	0.90
b	0.25	0.35
c	0.08	0.15
D	1.20	1.40
E	1.60	1.80
E1	2.50	2.70
e	1.80	2.04
L	0.475 REF	
L1	0.25	0.40
θ	0°	8°



 **Shenzhen Socay Electronics Co., Ltd.**

 +8618126201429

 sylvia@socay.com

 socaydiode.com

4/F, Block C, HeHengXing Science & Technology Park, 19 MinQing Road, LongHua District, Shenzhen City,
GuangDong Province, China