



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

Our Product Introduction

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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



Our Product

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)

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

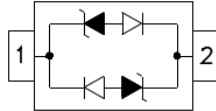
ESD Protection Diode Applications:

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

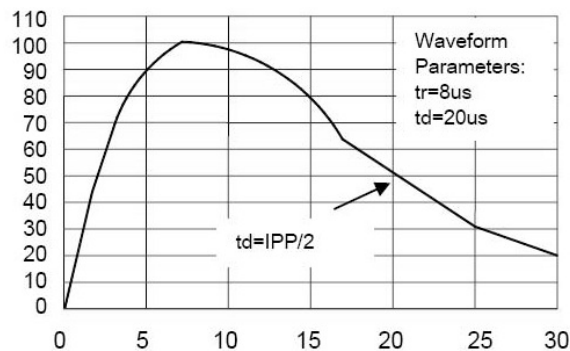


Fig2. Non-Repetitive Peak Pulse Power vs. Pulse Time

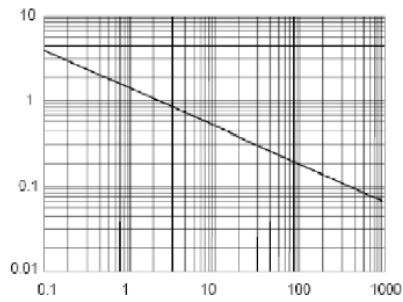


Fig3. Power Derating Curve

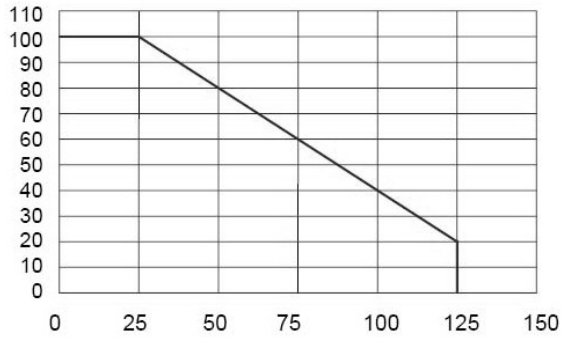
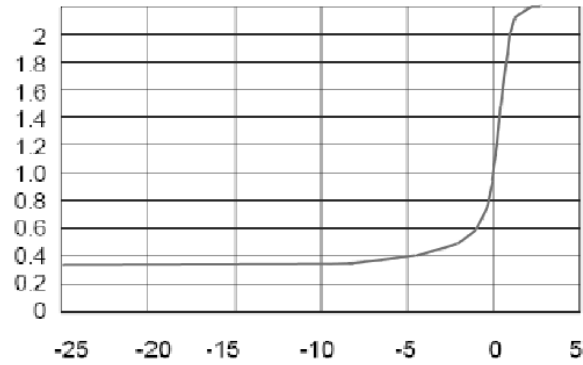
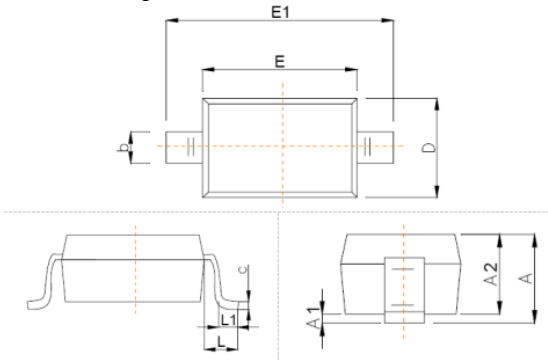


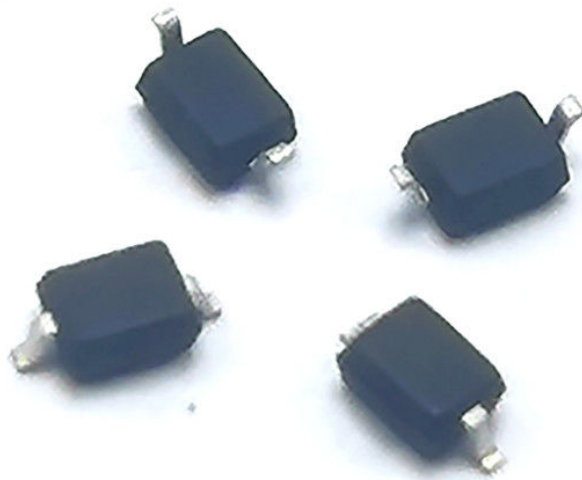
Fig4. Junction Capacitance vs. Reverse Voltage



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°



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