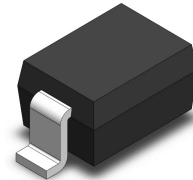




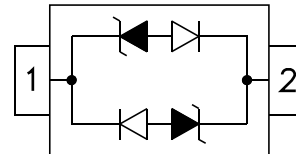
Transient Voltage Suppressors for ESD Protection

Low Capacitance**Feature**

- ◆ IEC 61000-4-2 (ESD) $\pm 25\text{kV}$ (air), $\pm 25\text{kV}$ (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 $< 1\text{ns}$

SOD-323**Applications**

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

Pin Configuration**Mechanical Characteristics**

- ◆ SOD-323 Package
- ◆ Flammability Rating: UL 94V-0
- ◆ Packaging: 3000 PCS / Tape & Reel
- ◆ High Temperature Soldering Guaranteed: $260^{\circ}\text{C}/10\text{s}$
- ◆ Reel Size: 7 inch
- ◆ Material: Halogen Free
- ◆ Marking Code: CC

Absolute Maximum Ratings (TA=25 °C unless otherwise specified)

Parameter	Symbol	Value	Units
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	± 25 ± 25	KV
Operating Temperature Range	T_J	$-55 \sim +150$	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	$-55 \sim +150$	$^{\circ}\text{C}$
Lead Solering Temperature	T_L	260	$^{\circ}\text{C}$

Transient Voltage Suppressors for ESD Protection

SE03D3D01GW

Low Capacitance

Electrical Characteristics (T_A= 25 ° unless otherwise specified)

Part Number	V _{RWM} (V) (Max)	V _B (V) (Min)	I _T (mA)	V _C @ 1A (V) (Max)	V _C (V)		I _R (μA) (Max)	C _T (pF) (Typ)
					(Max)	(@A)		
SE03D3D01GW	3.3	4.0	1	7.8	19.5	17	0.1	0.8

Electrical Characteristics Curves

Fig1. Pulse Waveform

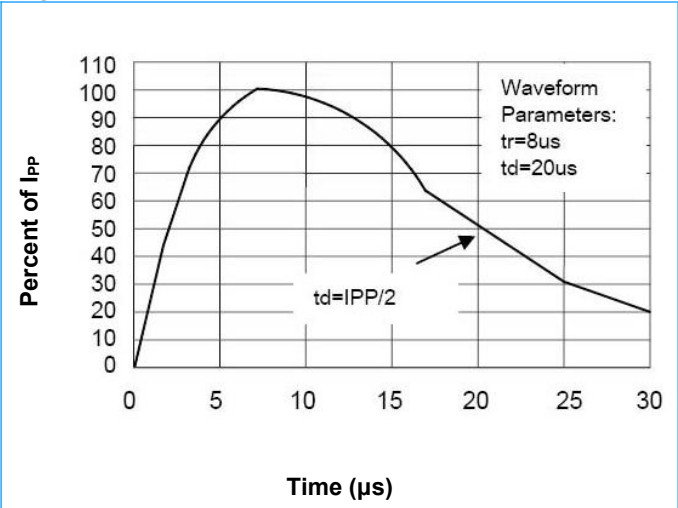


Fig2. Non-Repetitive Peak Pulse Power vs. Pulse Time

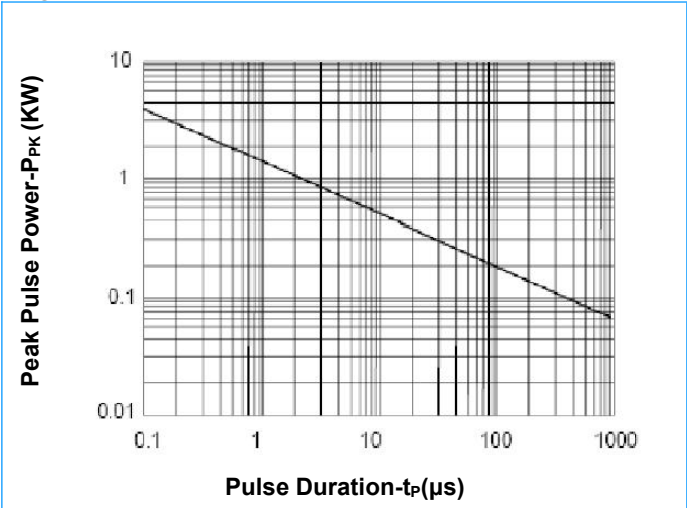


Fig3. Power Derating Curve

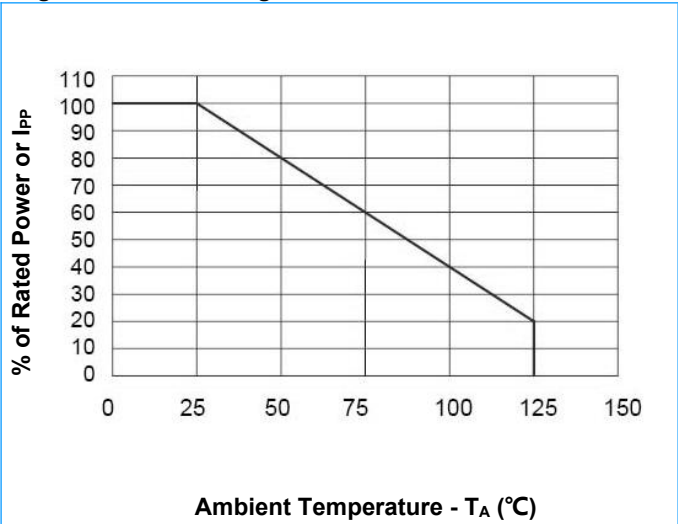
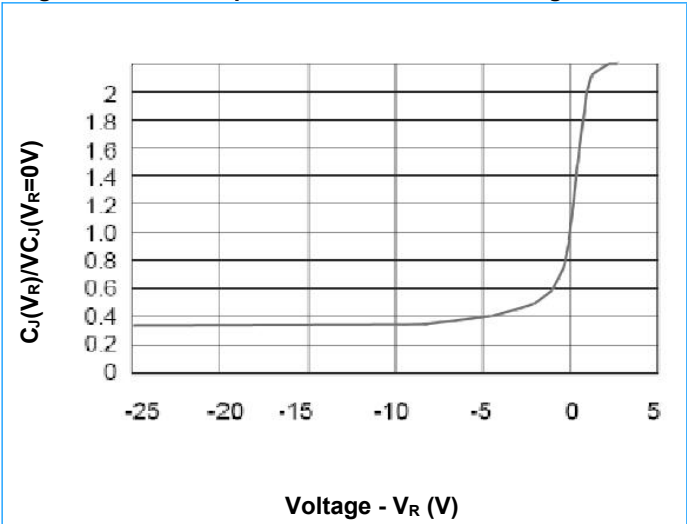


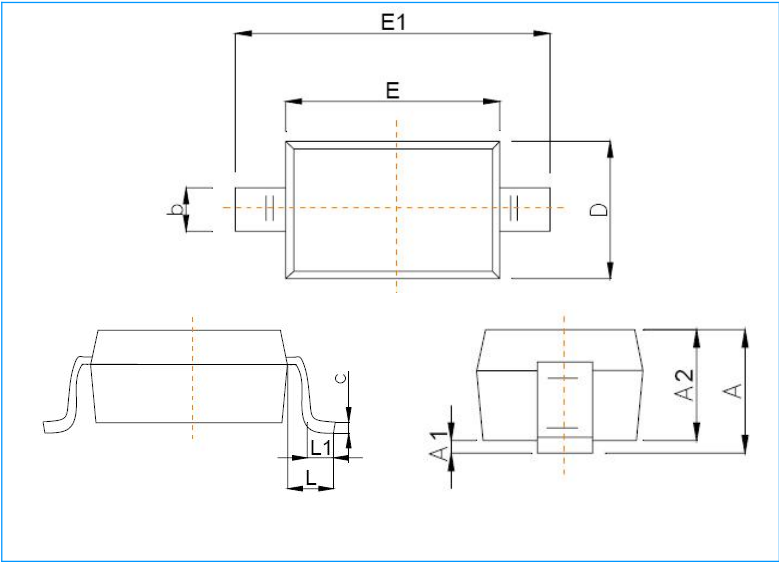
Fig4. Junction Capacitance vs. Reverse Voltage



Transient Voltage Suppressors for ESD Protection
SE03D3D01GW

Low Capacitance

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°

Recommended Pad Outline

