

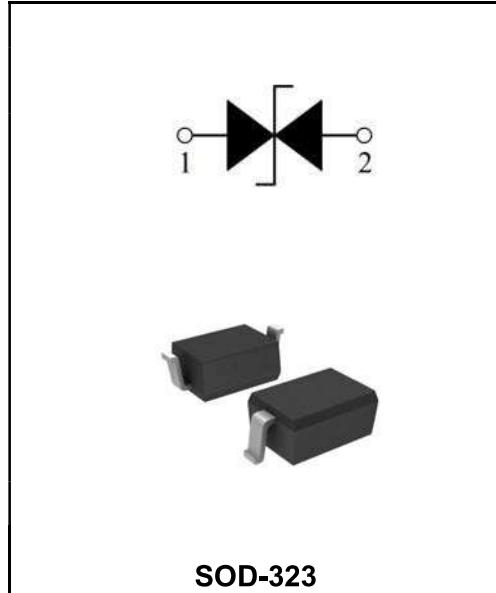
Transient Voltage Suppressor

Features

- ◆ 300 Watts Peak Pulse Power per Line ($t_p = 8/20\mu s$)
- ◆ Replacement for MLV (0805)
- ◆ Protects one I/O or power line
- ◆ Low Clamping Voltage
- ◆ Working Voltage: 3.3 V
- ◆ Low Leakage Current
- ◆ Response Time is Typically < 1 ns
- ◆ IEC 61000-4-2 (ESD) ±30 KV contact ±30 KV Air
- ◆ IEC 61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC 61000-4-5 (Lightning 8/20μs): 25A

Application

- ◆ Laptop Computers
- ◆ Cellular Phones
- ◆ Digital Cameras
- ◆ Personal Digital Assistants (PDAs)



Order Information

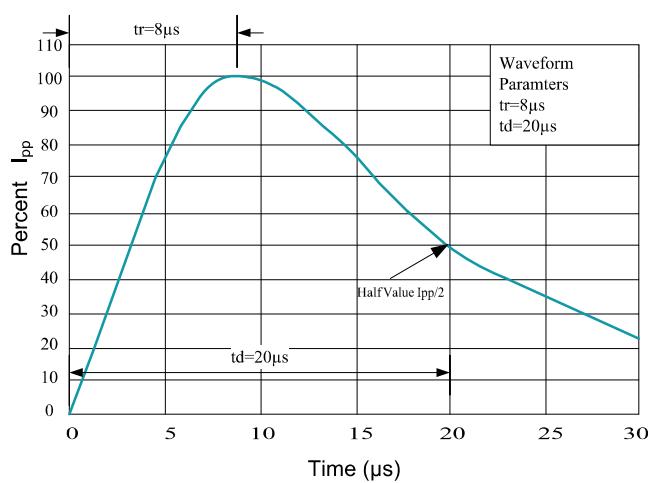
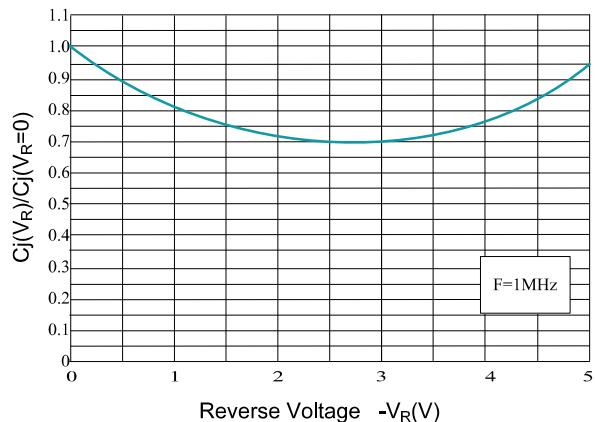
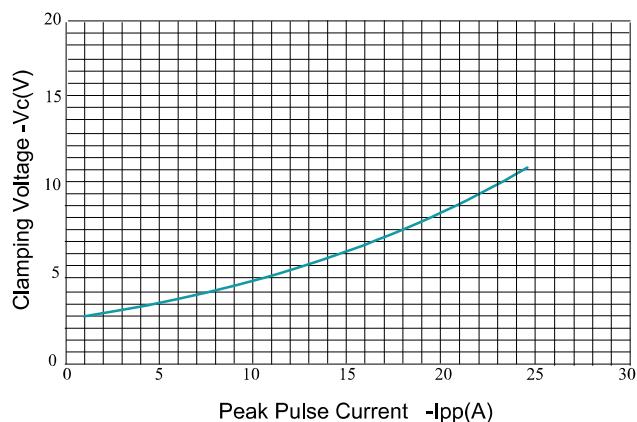
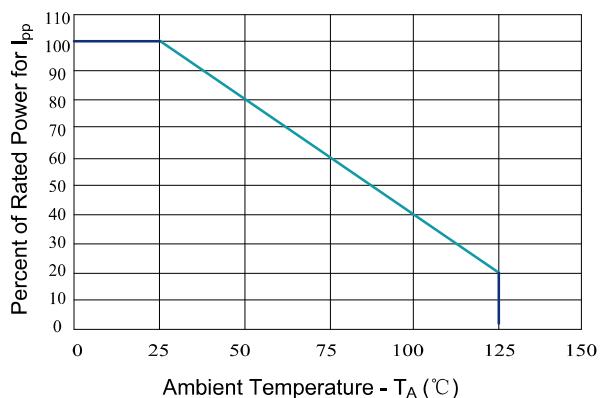
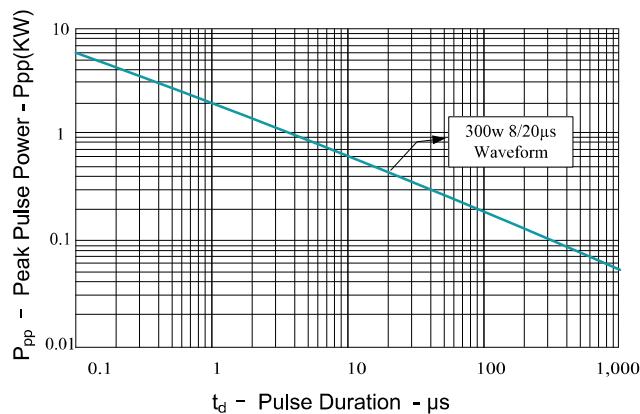
Part Number	Package	Marking	Size (mm)	Delivery Form	Delivery Quantity
ESD3V3FBD323	SOD-323	03B	2.6X1.3X0.5	7" T&R	3000PCS/Tape

Limiting Values(TA = 25 °C, unless otherwise specified)

Symbol	Parameter	Conditions	value	Unit
P _{PP}	Peak Pulse Power	t _P = 8/20 μs	300	W
I _{PPM}	Rated Peak Pulse Current	t _P = 8/20 μs	25	A
T _J	Junction Temperature	-	-55 to +125	°C
T _{stg}	Storage Temperature Range	-	-55 to +125	°C

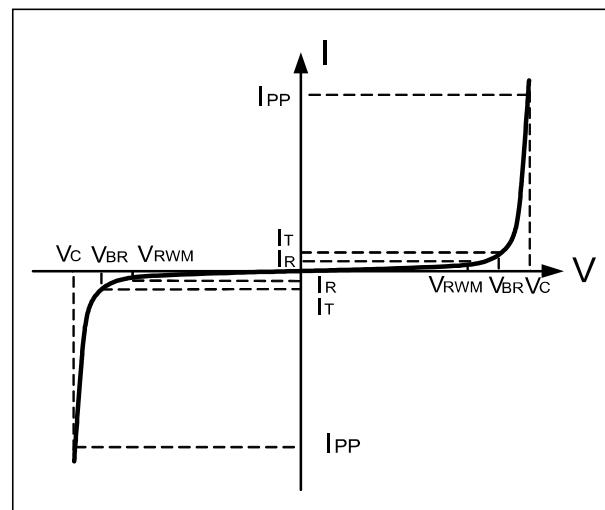
Electrical Characteristics(TA = 25 °C unless otherwise specified)

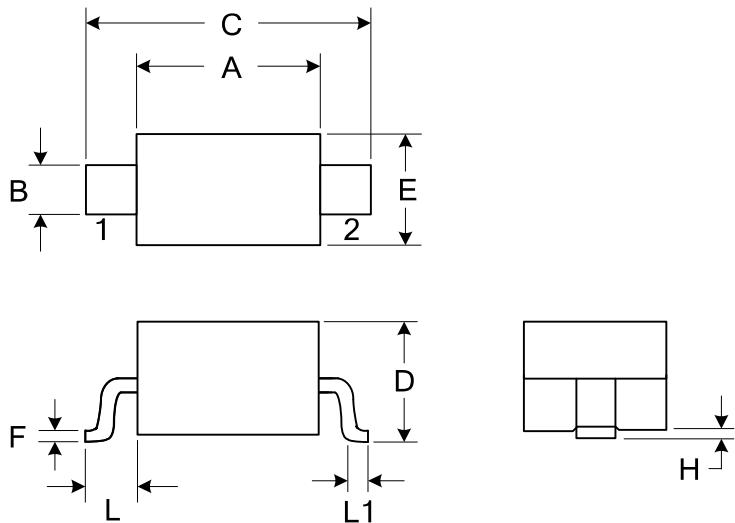
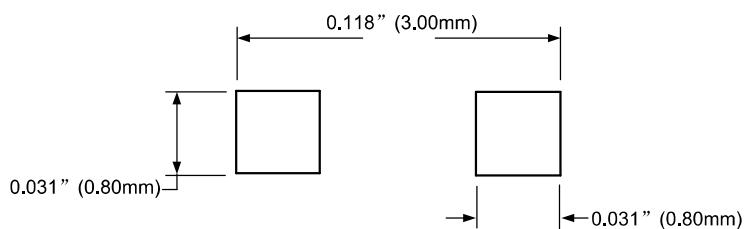
Symbol	Parameter	Conditions	Min	Typ.	Max	Unit
V _{RWM}	Reverse Stand-Off Voltage		-	-	3.3	V
V _{BR}	Breakdown Voltage	I _T = 1mA	3.4	-	5	V
I _R	Reverse Leakage Current	V _{RWM} = 3.3 V; TA = 25 °C	-	-	0.5	uA
V _C	Clamping Voltage	I _{PP} =1 A, t _P = 8/20μs	-	-	7.5	V
V _C	Clamping Voltage	I _{PP} =25 A, t _P = 8/20μs	-	9	12	V
C _J	Junction Capacitance	V _R = 0V, f = 1 MHz	-	30	-	pF

Typical Characteristics


Electrical Parameters (T=25°C)

Symbol	Parameter
I_{PP}	Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F



Package Dimension
PACKAGE OUTLINE

MOUNTING PAD


SOD-323				
DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.00	1.00	0.000	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.000	0.004

Notes

1. Controlling Dimensions in Millimeters.
2. Dimensions are exclusive of mold flash and metal burrs.