

Transient Voltage Suppressor

Features

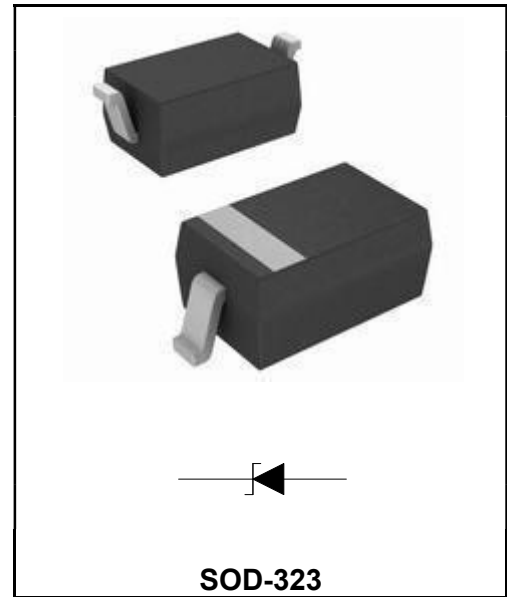
- ↕2800Watts peak pulse power (tp = 8/20µs)
- ↕Replacement for MLV (0805)
- ↕Protects one I/O or power line
- ↕Low Clamping Voltage
- ↕Working Voltage: 7V
- ↕Low leakage current
- ↕Response Time is Typically < 1 ns

IEC COMPATIBILITY (EN61000-4)

- ↕IEC 61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- ↕IEC 61000-4-4 (EFT) 40A (5/50ns)
- ↕IEC 61000-4-5 (Lightning) 100A (8/20µs)

Application

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



Order Information

Part Number	Package	Marking	Size (mm)	Delivery Form	Delivery Quantity
ESD7VFD323	SOD-323	Q7	2.6X1.3X0.9	7" T&R	3000PCS/Tape

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

Symbol	Parameter	Conditions	value	Unit
P _{PPM}	Peak Pulse Power	tP = 8/20 µs	2800	W
I _{PP}	Rated Peak Pulse Current	tP = 8/20 µs	115	A
T _J	Junction Temperature	-	-55 to+125	°C
T _{stg}	Storage Temperature Range	-	-55 to+150	°C

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

Symbol	Parameter	Conditions	Min	Typ.	Max	Unit
V _{RWM}	Reverse Stand-Off Voltage		-	-	7	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	8	-	10	V
I _R	Reverse Leakage Current	V _{RWM} = 7 V; TA = 25 °C	-	-	200	uA
V _C	Peak Pulse Current	tp =8/20µs	-	-	115	A
V _C	Clamping Voltage	IPP=100A, tP =8/20µs	-	23	25	V
C _J	Junction Capacitance	VR = 0V, f = 1 MHz	-	500	-	pF

Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

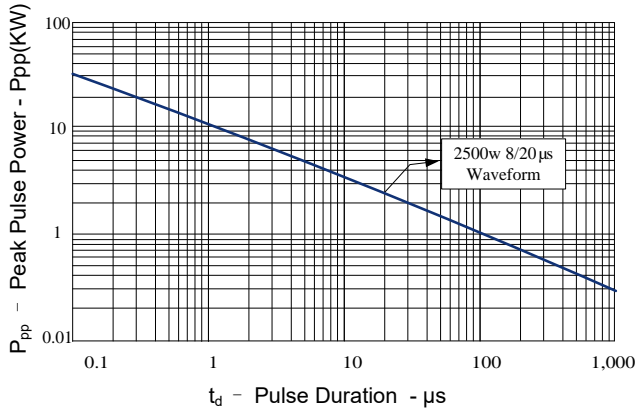


Figure 2: Power Derating Curve

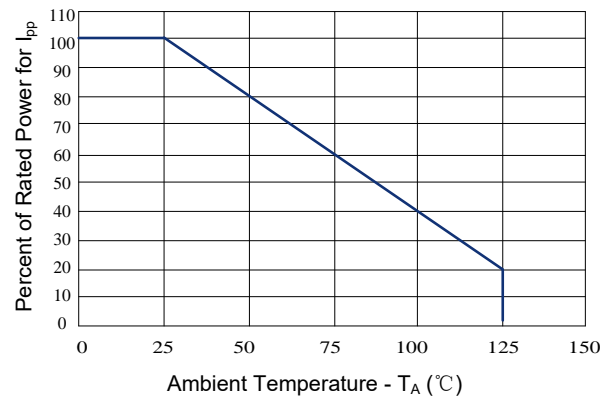


Figure 3: Clamping Voltage vs. Peak Pulse Current

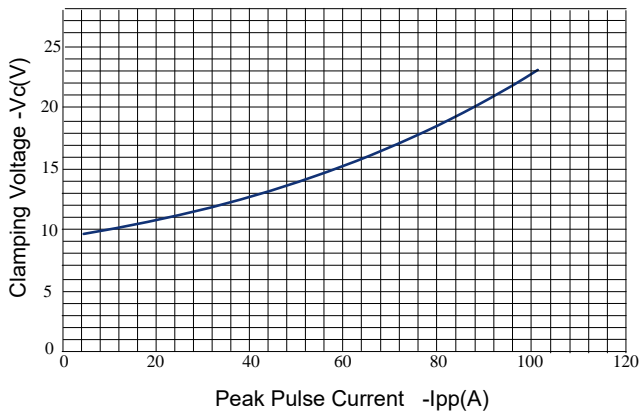


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

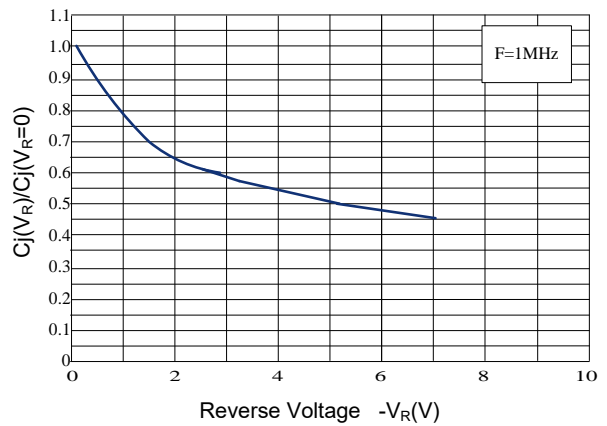
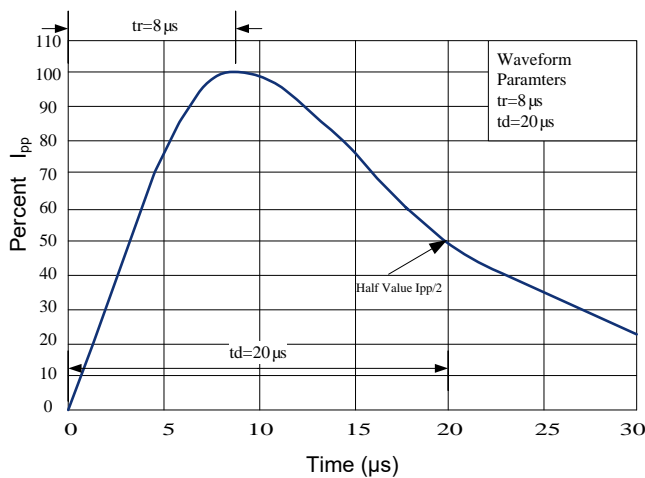
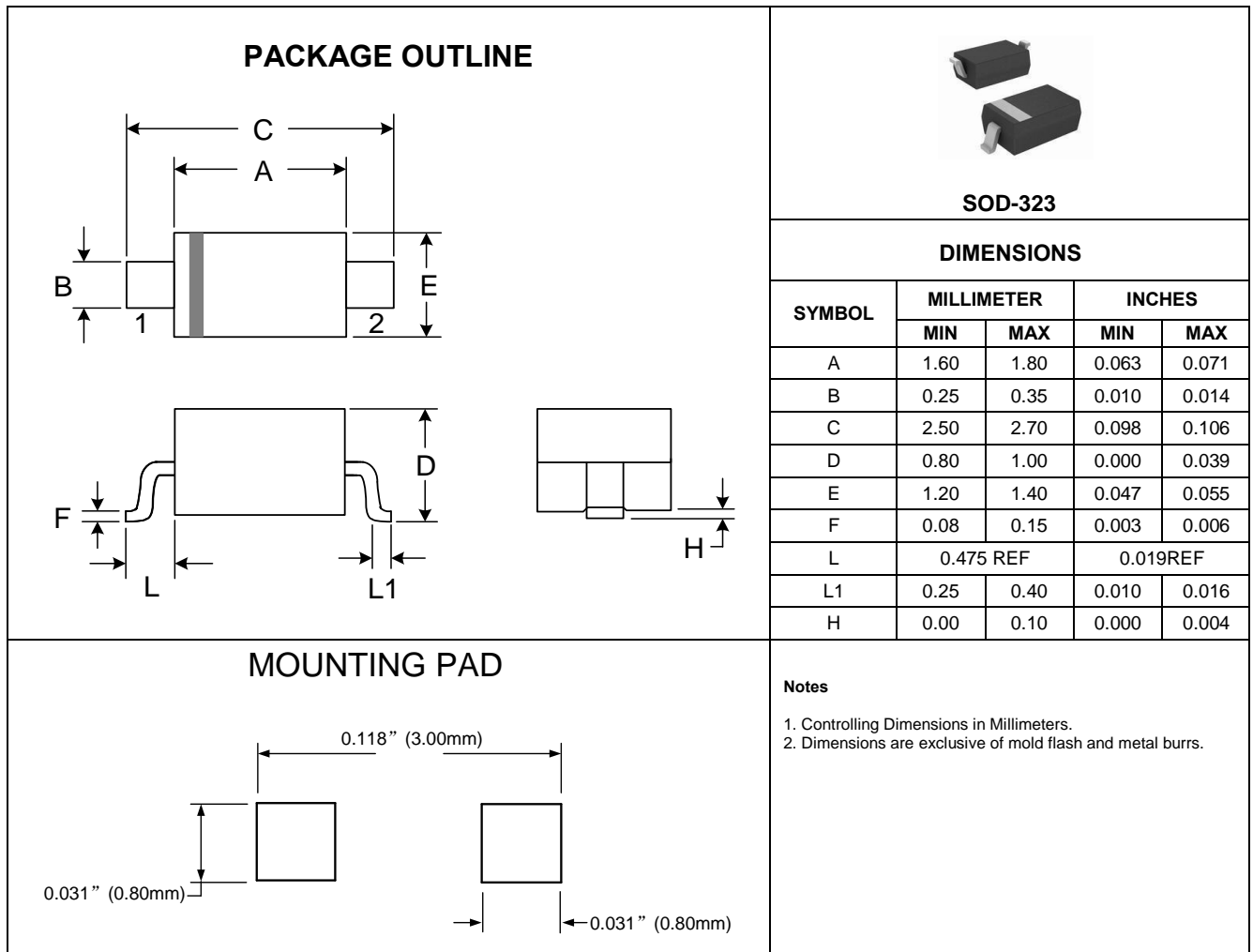


Figure 5: Pulse Waveform



Outline Drawing – SOD-323



单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)