



Features

- 100 Watts peak pulse power ($t_p = 8/20\mu s$)
- Protects one I/O or power line
- Low clamping voltage
- Working voltage: 24V
- Low leakage current
- Solid-state silicon-avalanche technology

IEC Compatibility (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)



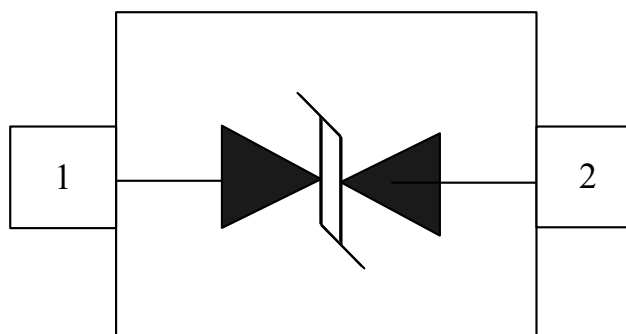
Mechanical Characteristics

- JEDEC SOD-323 package
- Molding compound flammability rating: UL 94V-0
- Marking : Marking Code
- Packaging : Tape and Reel per EIA 481
- RoHS Compliant

Applications

- Cellular Handsets & Accessories
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- MP3 Players

Schematic & PIN Configuration



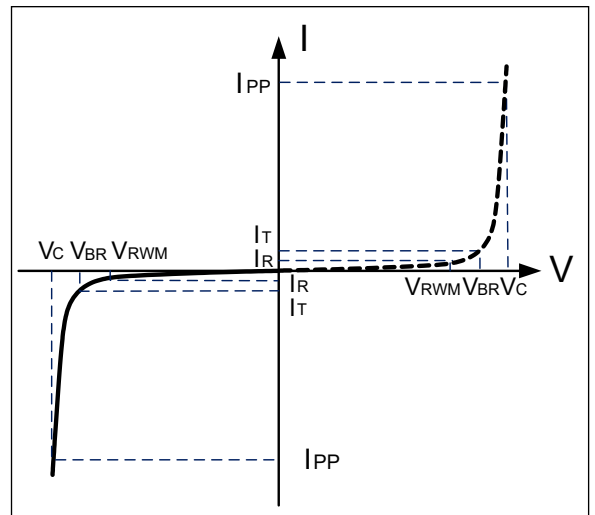
SOD-323 (Top View)



Absolute Maximum Rating			
Rating	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	100	W
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	3	A
Electrostatic discharge Voltage	V_{ESD}	± 8 (contact)	kV
		± 15 (air)	
Operating Temperature	T_J	-55 to + 125	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}C$

Electrical Parameters ($T=25^{\circ}C$)

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



Electrical Characteristics

Part Number	Reverse Stand off Voltage V_{RWM} (Volts)	Minimum Breakdown Voltage $V_{BR}@1mA$ (Volts)	Maximum Clamping Voltage $V_C @I_{PP}$ (Volts)	Peak Pulse Current $I_{PP}@ t_p =8/20\mu s$ (A)	Maximum Reverse Leakage current $I_R@V_{RWM}(\mu A)$	Typical Capacitance DC=0V CJ@ 1 MHz (pF)
DW24D3BC-B-E	24	26.7	34.0	3	1	23

Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

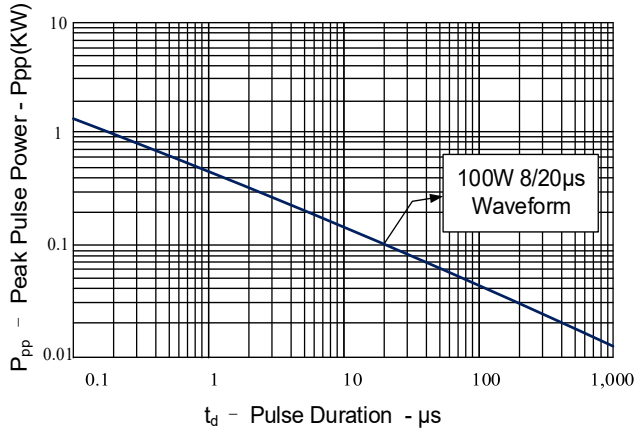


Figure 2: Power Derating Curve

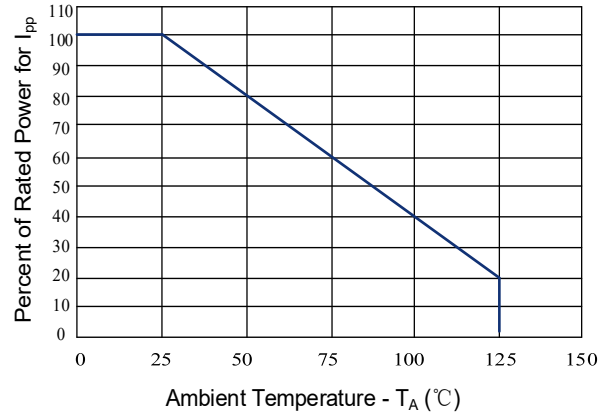


Figure 3: Clamping Voltage vs. Peak Pulse Current

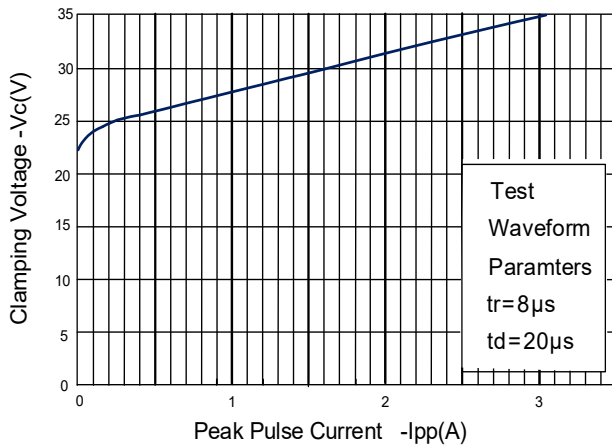


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

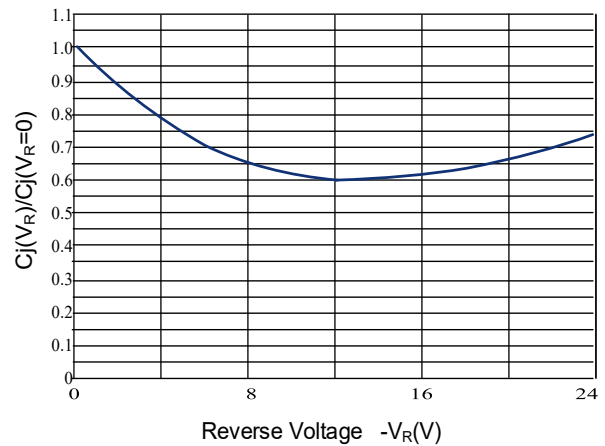


Figure 5: Pulse Waveform

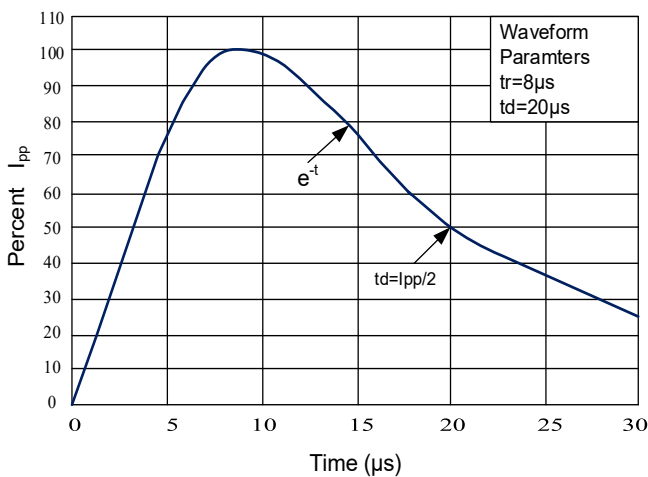
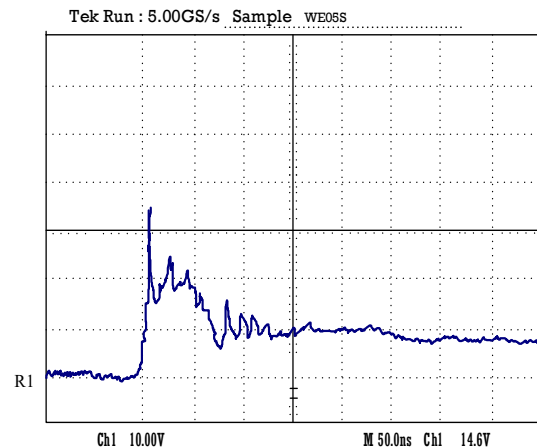
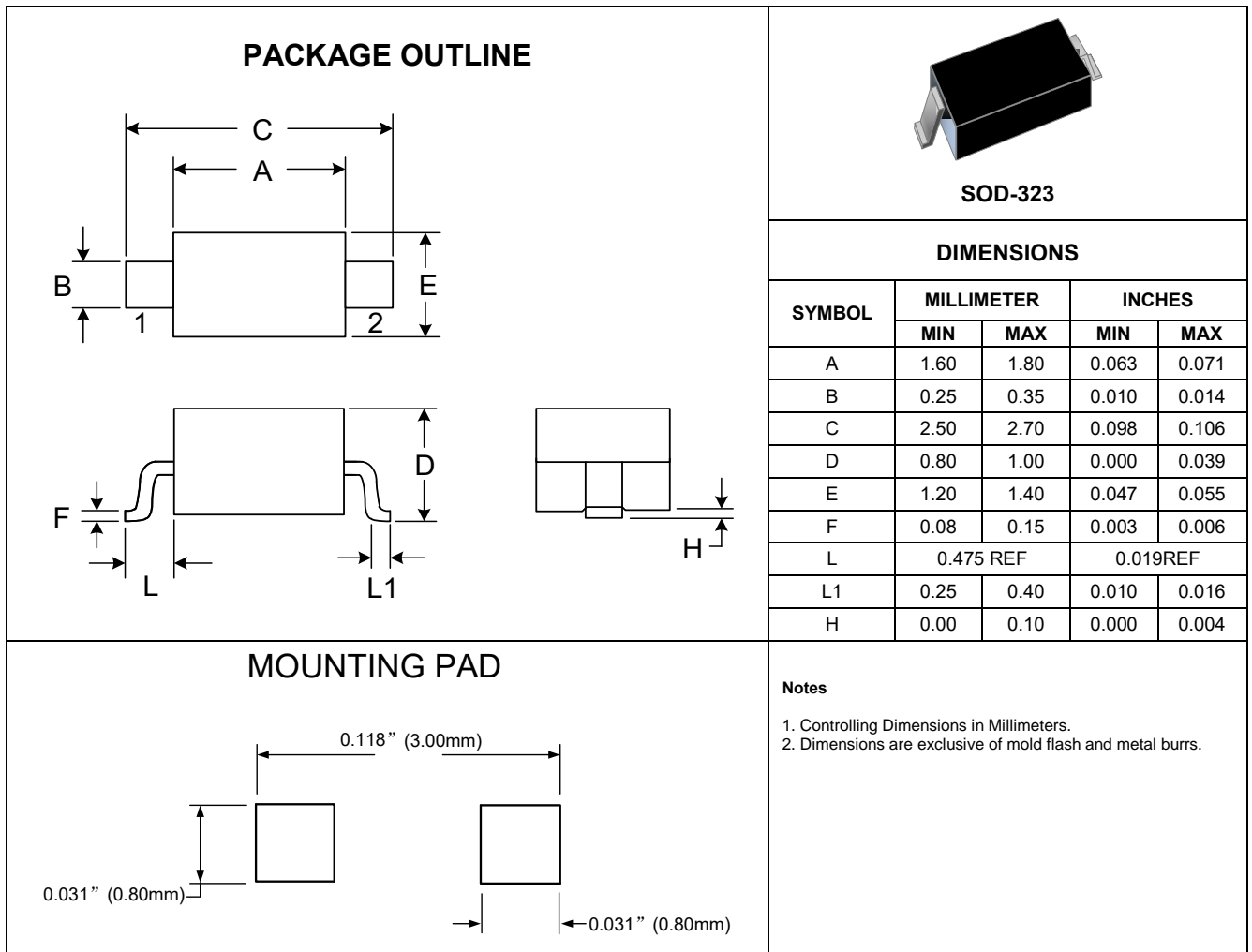


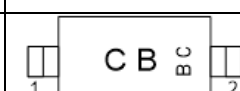
Figure 6: ESD Clamping(8kV Contact per IEC 61000-4-2)



Outline Drawing – SOD323



Marking Codes

Part Number	DW24D3BC-B-E
Marking Code	

Package Information

Qty: 3k/Reel