

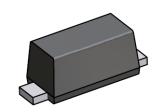
SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package Transient Voltage Suppressors ESD Protection Diodes

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

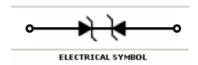
Symbol	Parameter	Value	Units	
Vpp	IEC61000-4-2(ESD)	Air Contact	±15 ±8	KV
ESD	Per Human Body Model	16	KV	
\mathbf{P}_{D}	Power Dissipation (Note 1)	150	mW	
T _{STG}	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperate	+150	°C	
TL	Max Lead Solder Temperature (10 Second Duration)	260	°C	

These ratings are limiting values above which the serviceability of the diode may be impaired. Note 1. FR-5 = $1.0 \times 0.75 \times 0.62$ in.

Green Product



SOD-523 Flat Lead



Specification Features:

- Stand-off Voltage: 3.3V
- Low Leakage
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish

Electrical Parameter

Symbol	Parameter					
I _{PP}	Maximum Reverse Peak Pulse Current					
Vc	Clamping Voltage @ I _{PP}					
V_{RWM}	Working Peak Reverse Voltage					
I _R	Maximum Reverse Leakage Current @ V _{RWM}					
I _T	Test Current					
V_{BR}	Breakdown Voltage @ I _T					

 $V_{BR}V_{RWM}$ I_{R} I_{T} V_{RWM} $V_{BR}V_{C}$

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Electrical Characteristics	(T _A = 25°C unless otherwise noted)
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Device Type	V _{RWM} (Volts)	I _R @ V _{RWN} (μΑ)	V _{BR} @ I _T (Note 2) (Volts)		I _T (A)		V _C @ Max I _{PP+} (Volts)	P _{PK+} (W)	$C @$ $V_R = 0V, f = 1MHz$ (pF)
	Max	Max	Min	Max		Max	Max	Max	Тур.
AZ5123-01H	3.3	1	5.6	7.8	1.0	4	12	48	15

SURGE CURRENT WAVEFORM:

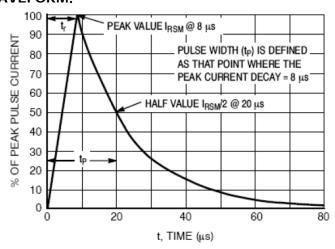
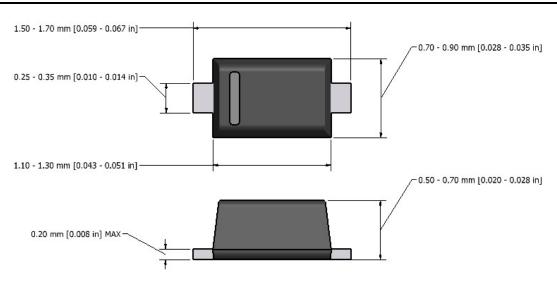


Figure 1. 8 x 20 μs Pulse Waveform

Flat Lead SOD-523 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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⁺ Surge current waveform per Figure 1. Note 2: V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.