

SOD-523 SURFACE MOUNT

Very Small Outline Flat Lead Plastic Package Transient Voltage Suppressors ESD Protection Diodes

Specification Features:

- Stand-off Voltage: 5V0
- Low Leakage
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish

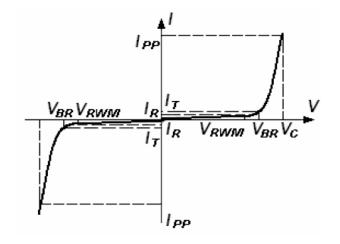
Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
Vpp	IEC61000-4-2(ESD) Air Contact	土15 土8	KV	
ESD	Per Human Body Model	16	KV	
PD	Power Dissipation (Note 1)	150	mW	
T _{STG}	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperature	+150	°C	
ΤL	Max Lead Solder Temperature range (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.

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}			
Ι _Τ	Test Current			
V _{BR}	Breakdown Voltage @ I _T			



SOD-523

ESD5Z5.0C



Device Marking:5C



SYMBOL



Electrical Characteristics (T_A = 25°C unless otherwise noted)

Device Type	V _{RWM} (Volts)	Ι_R @ V_{RWM} (μΑ)	(Not	@ I _T te 2) olts)	Ι _τ (mA)	I _{РР+} (А)	V _c @ Max I _{PP+} (Volts)	Р _{РК+} (W)	C @ V _R = 0V, f = 1MHz (pF)
	Max	Max	Min	Max		Max	Max	Max	Тур.
ESD5Z5.0C	5.0	1	5.6	7.8	1.0	4	12	48	15

+ 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.

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SURGE CURRENT WAVEFORM

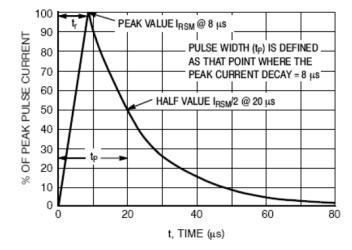
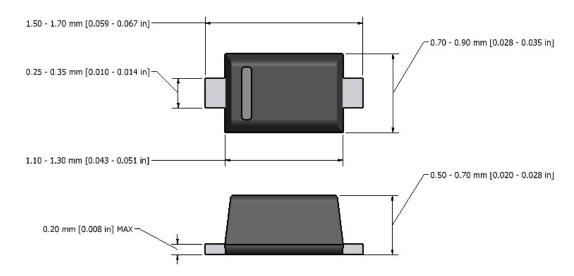


Figure 1.8 x 20 µs Pulse Waveform

SOD-523 Package Outline



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



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