

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	土15 土8	κv					
ESD	Per Human Body Model	16	KV					
Pp	Power Dissipation (Note 1)	150	mW					
T _{STG}	Storage Temperature Range	-55 to +150	°C					
ТJ	Operating Junction Temperature	+150	°C					
T∟	Max Lead Solder Temperature range(10 Second Duration)	260	°C					

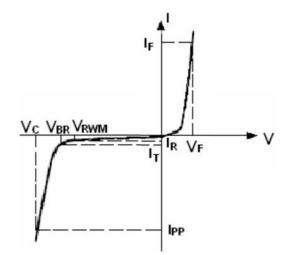
These ratings are limiting values above which the serviceability of the diode may be impaired. Note 1. FR-5 = $1.0 \times 0.75 \times 0.62$ in.

Specification Features:

- Stand-off Voltage: 12V
- Low Leakage
- Response Time is Typically < 1ns</p>
- IEC61000-4-2 Level 4 ESD Protection
- RoHS Compliant
- Threen EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

Electrical Parameters

Symbol	Parameter				
IPP	Maximum Reverse Peak Pulse Current				
$V_{\rm C}$	Clamping Voltage @ I _{PP}				
V _{RWM}	Working Peak Reverse Voltage				
I _R	Maximum Reverse Leakage Current @ V _{RWM}				
IT	Test Current				
V_{BR}	Breakdown Voltage @ IT				
IF	Forward Current				
V _F	Forward Voltage @ I _F				



Green Product



SOD-523 Flat Lead



ELECTRICAL SYMBOL



Electrical Characteristics (T _A = 25°C unless otherwise noted, V _F = 0.9V Max. @I _F = 10mA for all types)								
Device Type	V _{RWM} (Volts)	Ι_R @ V_{RWM} (μΑ)	V _{BR} @ I _T (Note 2) (Volts)	Ι _τ (mA)	I _{РР+} (А)	V _C @ Max I _{PP+} (Volts)	Р _{РК+} (W)	C @ V _R = 0V, f = 1MHz (pF)
	Max	Мах	Min		Max	Мах	Мах	Тур.
MSESD08V52D-C	8	1	8.5	1.0	5	30	95	55

+ 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.

SURGE CURRENT WAVEFORM:

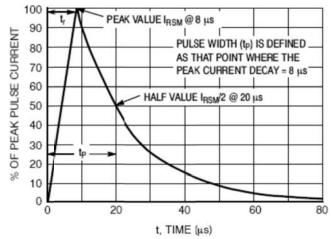


Figure 1. 8 x 20 µs Pulse Waveform

Flat Lead SOD-523 Package Outline

