ESD5Z3V3/ESD5Z5V0/ESD5Z7V0



ESD5Z3V3/ESD5Z5V0/ESD5Z7V0 Transient Voltage Suppressors ESD Protection Diode

General description

Silicon Diode in a SOD-523 Plastic Package.

FEATURES

- Stand-off Voltage: 3.3V/5.0V/7.0V
- Low Leakage Current
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- · Band Indicates Cathode

Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

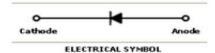
Symbol	Parameter	Value	Units
PD	Total Power Dissipation on FR-5 Broad	150	mW
T _L	Max Lead Solder Temperature range (10 Second Duration)	260	°C
T_{stg}	Storage Temperature Range	-55 to +150	°C
TJ	Junction Temperature	+150	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±30 ±30	KV
ESD	Per Human Body Model Per Machine Model	16 400	KV V

Symbol	Parameter					
Vc	Clamping Voltage @ I _{PP}					
I _{PP}	Peak Pulse Current					
V _{BR}	Breakdown Voltage @ I _T					
Ι _Τ	Test Current					
I _R	Reverse Leakage Current @ V _{RWM}					
V _{RWM}	Reverse Standoff Voltage					
V _F	Forward Voltage@ I _F					
I _F	Forward Current					

Green Product

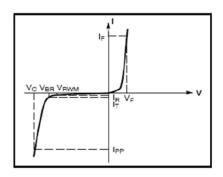


SOD-523 Flat Lead



Device Marking:

Device Type	Marking		
ESD5Z3V3	ZE		
ESD5Z5V0	ZF		
ESD5Z7V0	ZH		



V-I characteristics for a uni-directional TVS

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

Device Type	V _{RWM} (Volts)	IR @ V RWM (μΑ)	V _{BR} @ I _T (Note 1) (Volts)	I _T (mA)	Vc @ IPP+ = 5A (Volts)	I PP+ (A)	Vc @ Max IPP+ (Volts)	Р РК+ (W)	C @ $\mathbf{V}_{R} = 0V, f = 1MHz$ (pF)
	Max	Max	Min		Тур.	Max	Max	Max	Тур.
ESD5Z3V3	3.3	1	5.0	1.0	8.4	11.2	14.1	158	105
ESD5Z5V0	5.0	1	6.2	1.0	11.6	9.4	18.6	174	80
ESD5Z7V0	7.0	1	7.5	1.0	13.5	8.8	22.7	200	65

^{*} Surge current waveform per Figure 1.

Note 1: VBR is measured with a pulse test current IT at an ambient temperature of 25°C.



SURGE CURRENT WAVEFORM:

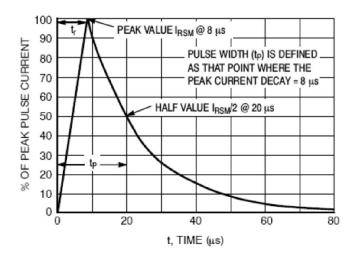
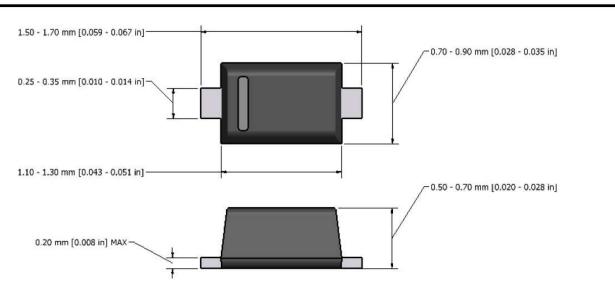


Figure 1. 8 x 20 µs Pulse Waveform

Flat Lead SOD-523 Package Outline



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

ESD5Z3V3/ESD5Z5V0/ESD5Z7V0



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