ESD5Z3V3/ESD5Z5V0/ESD5Z7V0

ESD5Z3V3/ESD5Z5V0/ESD5Z7V0

Transient Voltage Suppressors ESD Protection Diode

General description

Silicon Diode in a SOD-523 Plastic Package.

FEATURES

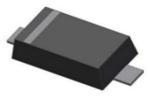
- Stand-off Voltage: 3.3V/5.0V/7.0V
- Low Leakage Current
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

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

Symbol	Parameter	Value	Units
PD	Total Power Dissipation on FR-5 Broad	150	mW
TL	Max Lead Solder Temperature range (10 Second Duration)	260	°C
\mathbf{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}				
IPP	Peak Pulse Current				
V _{BR}	Breakdown Voltage @ I⊤				
IT	Test Current				
I _R	Reverse Leakage Current @ V _{RWM}				
V _{RWM}	Reverse Standoff Voltage				
VF	Forward Voltage@ I _F				
IF	Forward Current				

Green Product



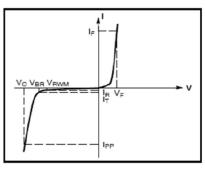
SOD-523 Flat Lead



ELECTRICAL SYMBOL

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 кwм (Volts)	Ιr @ V rwm (μΑ)	Vвк @ Iт (Note 1) (Volts)	Ι _τ (mA)	Vc @ IPP+ = 5A (Volts)	І рр+ (А)	Vc @ Max IPP+ (Volts)	Р рк+ (W)	C @ 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.

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ESD5Z3V3/ESD5Z5V0/ESD5Z7V0

SURGE CURRENT WAVEFORM:

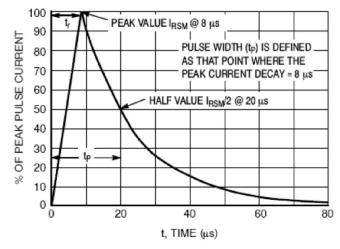
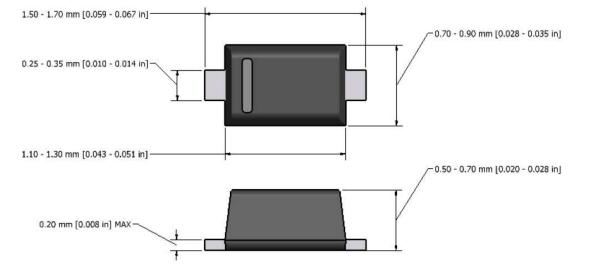


Figure 1.8 x 20 µs Pulse Waveform

Flat Lead SOD-523 Package Outline



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

ESD5Z3V3/ESD5Z5V0/ESD5Z7V0



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