

ESD5Z3V3C

ESD5Z3V3C Transient Voltage Suppressors ESD Protection Diode

General description

Silicon Diode in a SOD-523 Plastic Package.

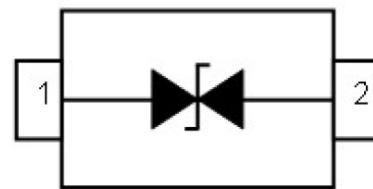
FEATURES

- Stand-off Voltage: 3.3V
- Low Leakage Current
- Low clamping voltage
- Protects one directional I/O line
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish



Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
P_p	Peak pulses power (8/20 μs)	84	W
T_L	Max Lead Solder Temperature range (10 Second Duration)	260	°C
T_{stg}	Storage Temperature Range	-40 to +150	°C
T_{OP}	Operation Temperature	-40 to +150	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±20 ±25	kV
ESD	IEC61000-4-4 (EFT) (5/50nS)	40	A



Device Marking:

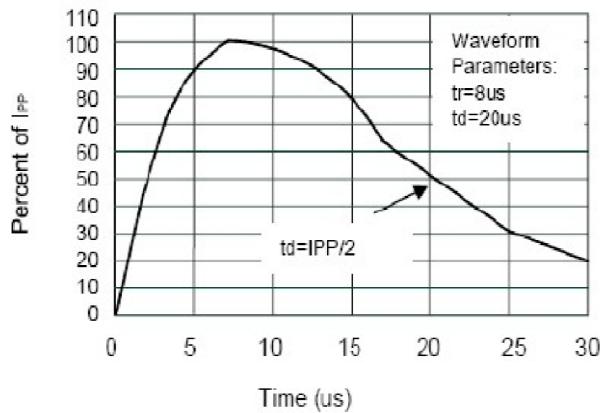
Device Type	Marking
ESD5Z3V3C	3C or 2C

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

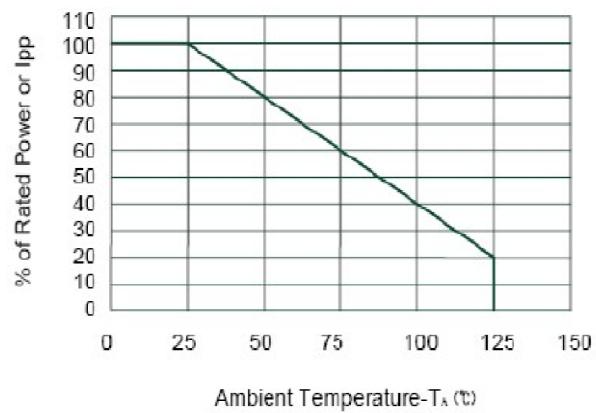
ELECTRICAL CHARACTERISTICS (Tamb=25°C)						
Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V_{RWM}	Reverse Working Voltage				3.3	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	4.0			V
I_R	Reverse Leakage Current	$V_{RWM} = 3.3\text{V}$			1.0	μA
V_C	Clamping Voltage	$I_{PP} = 1\text{A}$, $t_p = 8/20\mu\text{s}$			8.0	V
V_C	Clamping Voltage	$I_{PP\max} = 7\text{A}$, $t_p = 8/20\mu\text{s}$			12.0	V
C_J	Junction Capacitance	$V_R = 0\text{V}$, $f = 1\text{MHz}$			12	pF

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SURGE CURRENT WAVEFORM:

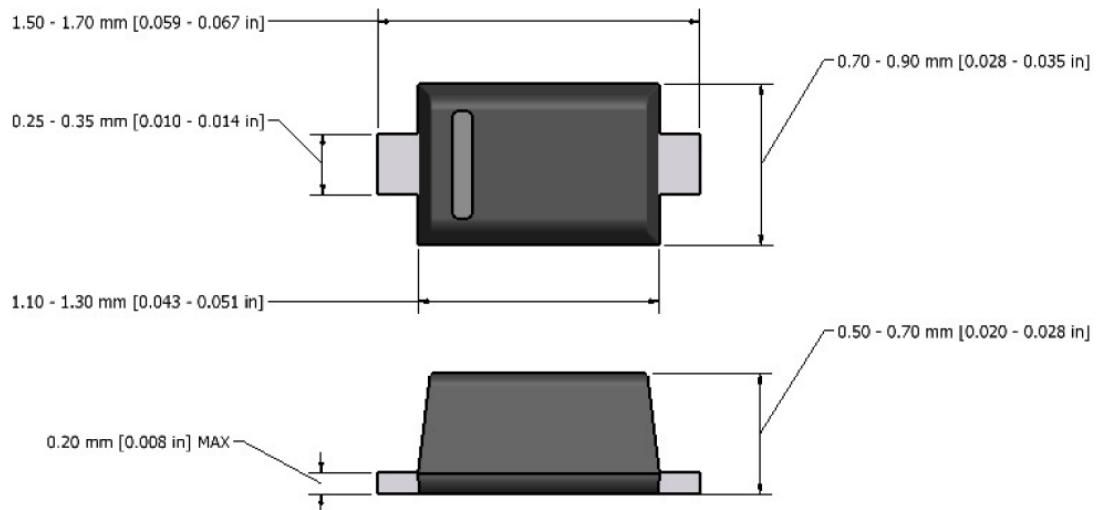


Pulse Waveform



Power Derating Curve

Flat Lead SOD-523 Package Outline



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

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