

ESD5Z3V3C

ESD5Z3V3C Transient Voltage Suppressors ESD Protection Diode

General description

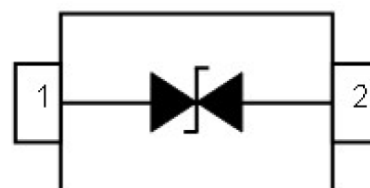
Silicon Diode in a SOD-523 Plastic Package.

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°C unless otherwise noted)

Symbol	Parameter	Value	Units
P _p	Peak pules power (8/20uS)	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:

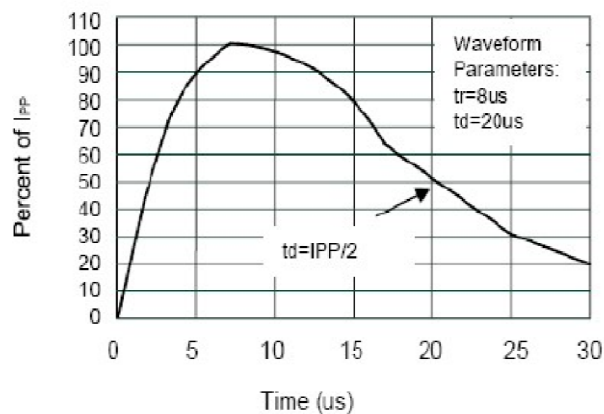
Device Type	Marking
ESD5Z3V3C	3C or 2C

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

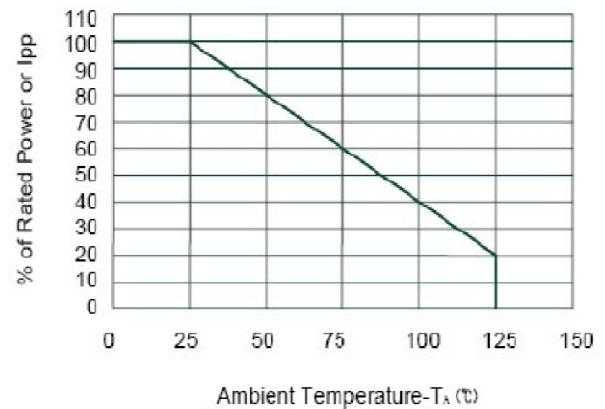
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V _{RWM}	Reverse Working Voltage				3.3	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	4.0			V
I _R	Reverse Leakage Current	V _{RWM} = 3.3V			1.0	μA
V _C	Clamping Voltage	I _{PP} = 1A, t _p = 8/20μs			8.0	V
V _C	Clamping Voltage	I _{PPmax} = 7A, t _p = 8/20μs			12.0	V
C _J	Junction Capacitance	V _R = 0V, f = 1MHz			12	pF

SURGE CURRENT WAVEFORM:

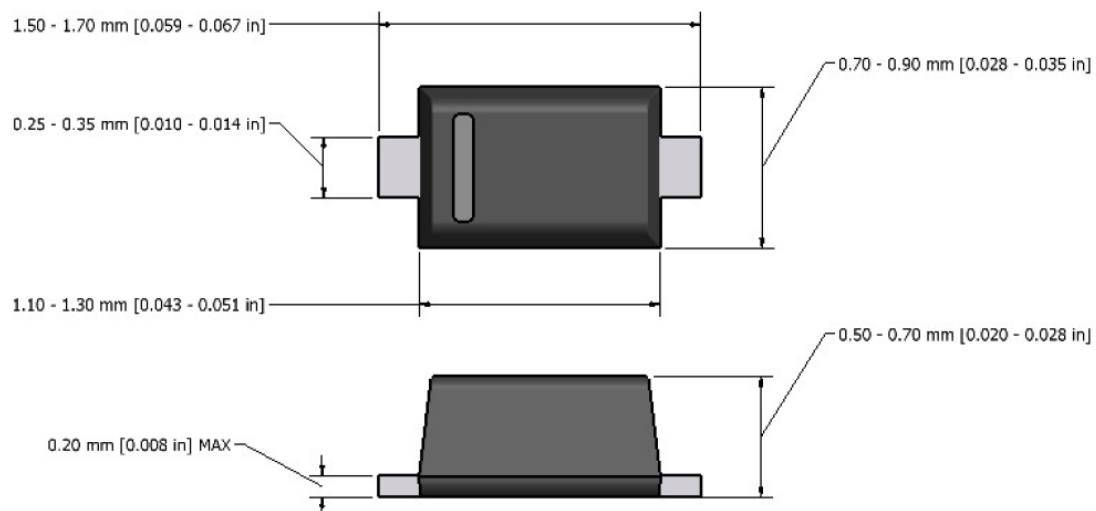


Pulse Waveform



Power Derating Curve

Flat Lead SOD-523 Package Outline



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

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