

ESD3Z5V0C

ESD3Z5V0C Transient Voltage Suppressors for ESD protection

General description

Transient Voltage Suppressors for ESD protection in a SOD-323 Package.

FEATURES

- Protects one I/O line
- Low clamping voltage
- Working voltages : 5V
- Low leakage current
- Peak power dissipation: 128W (8/20 μ s)

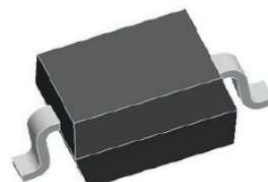
APPLICATIONS:

- High Speed Line :USB1.0/2.0, VGA, DVI, SDI,
- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Projection TV
- Cellular handsets and accessories
- Portable instrumentation
- Peripherals

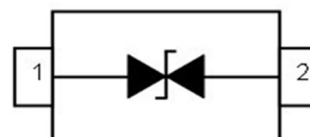
MACHANICAL DATA

- SOD-323 package
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026

Package Outline



SOD-323 Package



Device Marking:

| Device Type | Marking |
|-------------|----------|
| ESD3Z5V0C | 3M or AC |

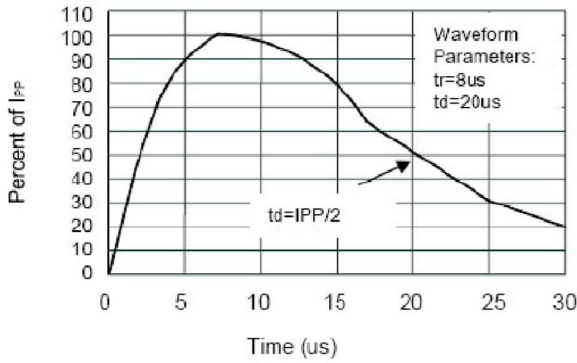
ABSOLUTE MAXIMUM RATING

| Symbol | Parameter | Value | Units |
|------------------|---------------------------------|---------|-------|
| V _{ESD} | ESD per IEC 61000-4-2 (Air) | ±30 | kV |
| | ESD per IEC 61000-4-2 (Contact) | ±30 | |
| P _{PP} | Peak Pulse Power (8/20 μ s) | 128 | W |
| T _{OPT} | Operating Temperature | -40~150 | °C |
| T _{STG} | Storage Temperature | -40~150 | °C |

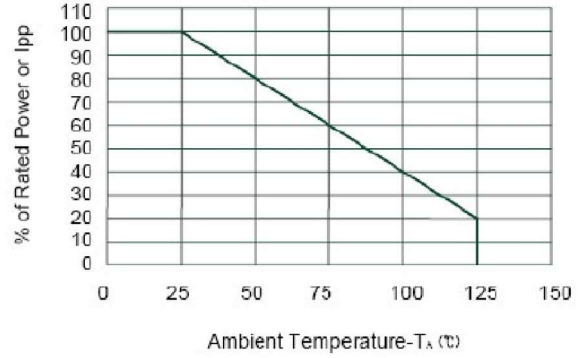
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C)

| Symbol | Parameter | Test Condition | Min | Typ | Max | Units |
|------------------|---------------------------|--|-----|-----|------|---------|
| V _{RWM} | Reverse Working Voltage | | | | 5.0 | V |
| V _{BR} | Reverse Breakdown Voltage | I _T = 1mA | 5.6 | | 7.8 | V |
| I _R | Reverse Leakage Current | V _{RWM} = 5V | | | 1.0 | μ A |
| V _C | Clamping Voltage | I _{PP} = 5A, t _p = 8/20 μ s | | | 11.6 | V |
| V _C | Clamping Voltage | I _{PPmax} = 8A, t _p = 8/20 μ s | | | 16.0 | V |
| C _J | Junction Capacitance | V _R = 0V, f = 1MHz | | | 15 | pF |

Typical Characteristic:

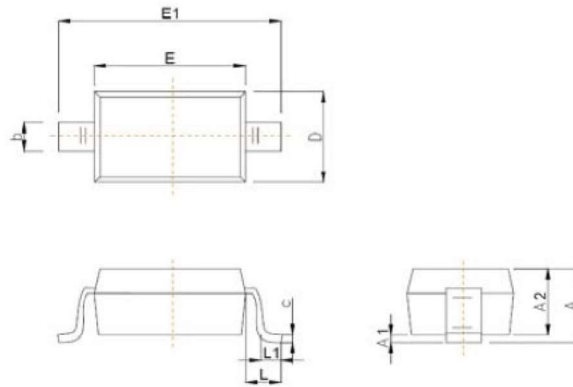


Pulse Waveform

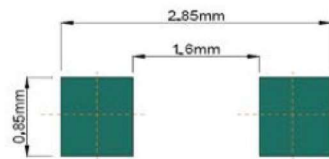


Power Derating Curve

SOD-323 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions in Millimeters | |
|----------|---------------------------|-------|
| | Min | Max |
| A | | 1.00 |
| A1 | 0.000 | 0.100 |
| A2 | 0.800 | 0.900 |
| b | 0.250 | 0.350 |
| c | 0.080 | 0.150 |
| D | 1.200 | 1.400 |
| E | 1.600 | 1.800 |
| E1 | 2.500 | 2.700 |
| e | 1.800 | 2.040 |
| L | 0.475 REF | |
| L1 | 0.250 | 0.400 |
| θ | 0° | 8° |



Recommended Pad outline

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