Elektronische Bauelemente

# SD36

**350W, 36V**

**TVS Protection (Uni-Directional)**

RoHS Compliant Product

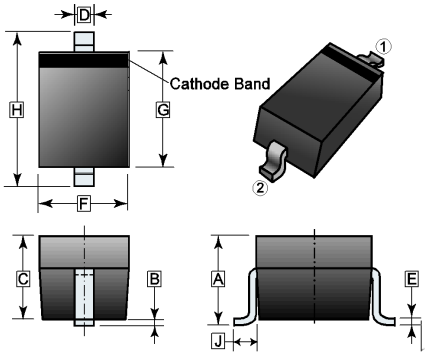
A suffix of “-C” specifies halogen and lead-free

## DESCRIPTION

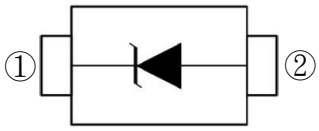
The SD36 is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

This has been specifically designed to protect sensitive components which are connected to power、data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events),and EFT (electrical fast transients).

**SOD-323**




| REF. | Millimeter | | REF. | Millimeter | |
|---|---|---|---|---|---|
| | Min. | Max. | | Min. | Max. |
| A | 1.05 REF. | | F | 1.15 | 1.45 |
| B | 0.20 REF. | | G | 1.6 | 1.8 |
| C | 0.80 | 1.00 | H | 2.55 | 2.75 |
| D | 0.25 | 0.40 | J | 0.475 REF | |
| E | 0.080 | 0.180 | | | |




**Uni-directional**

## FEATURES

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- 350 Watts Peak Pulse Power per (tp=8/20μs)
- Protects One I/O Line (Uni-directional)
- Low Clamping Voltage
- Working Voltages : 36V
- Low Leakage Current

## APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor Based Equipment
- Personal Digital Assistants (PDA’s)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports
- Peripherals

## MARKING

**36W**

## PACKAGE INFORMATION

| Package | MPQ | Leader Size |
|---|---|---|
| SOD-323 | 3K | 7 inch |

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# SD36

**350W, 36V**

**TVS Protection (Uni-Directional)**

## ABSOLUTE MAXIMUM RATINGS ($T_A$=25°C unless otherwise specified)

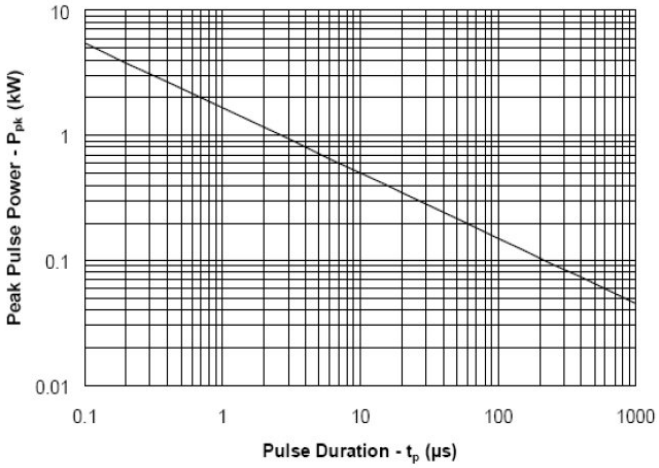
| Rating | | Symbol | Value | Unit |
|---|---|---|---|---|
| ESD Voltage(IEC61000−4−2) | Air Model | $V_{ESD}$ | ±15 | kV |
| | Contact Model | | ±8 | |
| Peak Pulse Power@ tp=8/20μs pulse waveform | | $P_{PP}$ | 350 | W |
| Maximum Lead Solder Temperature@ 10 second duration | | $T_L$ | 260 | °C |
| Operating Junction and Storage Temperature Range | | $T_J$, $T_{STG}$ | -55~150 | °C |

## ELECTRICAL CHARACTERISTICS ($T_A$=25°C unless otherwise specified)

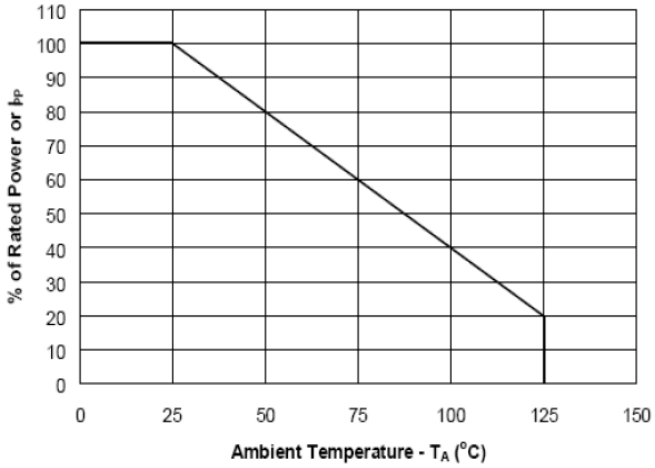
| Device | $V_{RWM}$ (V) | $V_B$ (V) | $I_T$ (mA) | $V_C$@1A (V) | $V_C$@5A (V) | $I_R$ (uA) | $C_T$ (pF) |
|---|---|---|---|---|---|---|---|
| | Max. | Min. | | Max. | Max. | Max. | Max. |
| SD36 | 36 | 40 | 1 | 60 | 75 | 1 | 60 |

## ELECTRICAL CHARACTERISTICS CURVE

Non-Repetitive Peak Pulse Power vs. Pulse Time




Power Derating Curve




Pulse Waveform