

Product Overview

SL05: ESD / Surge Protector

For complete documentation, see the data sheet.

This new family of TVS offers transient overvoltage protection with significantly reduced capacitance. The capacitance is lowered by integrating a compensating diode in series. This integrated solution offers ESD protection for high speed interfaces such as communication systems, computers, and computer peripherals.

Features

- TVS Diode in Series with a Compensating Diode Offers < 5 pF Capacitance
- ESD Protection Meeting IEC 61000-4-2, 4-4, 4-5
- Peak Power Rating of 300 Watts, 8 x 20 μ s
- Bi-Direction Protection Can Be Achieved By Using Two Devices
- Flammability Rating UL 94V-0
- Mechanical Characteristics:
- CASE: Void-free, transfer-molded, thermosetting plastic case
- FINISH: Corrosion resistant finish, easily solderable
- MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES: 260°C for 10 Seconds
- Package designed for optimal automated board assembly

For more features, see the data sheet

Applications

- Networking and Telecommunications

Part Electrical Specifications

| Product | Compliance | Status | Interface | Number of Lines | Direction | C Max (pF) | V _(BR) Min (V) | V _{RWM} Max (V) | I _R Max (μ A) | P _{PK} Max (W) | Package Type |
|-----------|---|--------|-------------|-----------------|----------------|------------|---------------------------|--------------------------|-------------------------------|-------------------------|--------------|
| SL05T1G | Pb-free Halide free | Active | General I/O | 1 | Unidirectional | 5 | 6 | 5 | 20 | 300 | SOT-23-3 |
| SZSL05T1G | AEC Qualified PPAP Capable Pb-free Halide free | Active | General I/O | 1 | Unidirectional | 5 | 6 | 5 | 20 | 300 | SOT-23-3 |

For more information please contact your local sales support at www.onsemi.com.

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