

## Product Overview

### 1SMB5942B: 51 V, 3.0 W Zener Diode Voltage Regulator

For complete documentation, see the data sheet.

This 3.0 W Zener diode is designed for general purpose voltage regulation applications.

#### Features

- Zener Voltage Range - 3.3 V to 200 V
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Flat Handling Surface for Accurate Placement
- Package Design for Top Side or Bottom Circuit Board Mounting

Mechanical Characteristics:

- CASE: Void-free, transfer-molded plastic
- FINISH: All external surfaces are corrosion resistant with readily solderable leads
- MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES: 260°C for 10 seconds
- LEADS: Modified L-Bend providing more contact area to bond pads
- POLARITY: Cathode indicated by molded polarity notch.
- FLAMMABILITY RATING: UL94 V-0

For more features, see the data sheet

#### Part Electrical Specifications

| Product        | Compliance  | Status | V <sub>Z</sub> Typ (V) | P Max (W) | Package Type |
|----------------|---|--------|------------------------|-----------|--------------|
| 1SMB5942BT3G   | Pb-free<br>Halide free  | Active | 51                     | 3         | SMB-2        |
| SZ1SMB5942BT3G | AEC<br>Qualified<br>PPAP<br>Capable<br>Pb-free<br>Halide free | Active | 51                     | 3         | SMB-2        |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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