



## Product Overview

### 1SMA48CA: 400 Watt SMA Transient Voltage Suppressor, 48 V Bidirectional

For complete documentation, see the data sheet

#### Product Description

The SMA series is designed to protect voltage sensitive components from high voltage, high energy transients. They have excellent clamping capability, high surge capability, low zener impedance and fast response time. The SMA series is supplied in ON Semiconductor's exclusive, cost-effective, highly reliable Surmetic package and is ideally suited for use in communication systems, automotive, numerical controls, process controls, medical equipment, business machines, power supplies and many other industrial/consumer applications.

#### Features

- Working Peak Reverse Voltage Range - 10 V to 78 V
- Standard Zener Breakdown Voltage Range - 11.7 V to 91.3 V
- Peak Power 400 Watts @ 1.0 ms
- ESD Rating of Class 3 (>16 kV) per Human Body Model
- Response Time is Typically < 1 ns
- Flat Handling Surface for Accurate Placement
- Package Design for Top Side or Bottom Circuit Board Mounting
- Low Profile Package

Mechanical Characteristics:

- Case</B>: Void-free, transfer-molded plastic
- FINISH</B>: All external surfaces are corrosion resistant with readily solderable leads

#### Part Electrical Specifications

Product	Compliance	Status	Dir	V <sub>(BR)</sub> Typ (V)	P <sub>PK</sub> Max (W)	V <sub>RWM</sub> Max (V)	I <sub>R</sub> Max (uA)	V <sub>C</sub> Max (V)	Package Type
1SMA48CAT3G	AEC Qualified Pb-free Halide free	Active	Bidirectional	56.1	400	48	2.5	77.4	SMA-2
SZ1SMA48CAT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Bidirectional	56.1	400	48	2.5	77.4	SMA-2

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

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