



Product Overview

1SMC12A: Transient Voltage Suppressor, Unidirectional, 12 V, 1500 Watt

For complete documentation, see the data sheet

Product Description

The SMC 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 SMC 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

- Standard Zener Breakdown Voltage Range - 6.8 to 91 V
- Stand-off Voltage Range - 5 to 78 V
- Peak Power - 1500 Watts @ 1 ms
- Maximum Clamp Voltage @ Peak Pulse Current
- Low Leakage $< 5 \mu A$ Above 10 V
- UL Recognition
- Maximum Temperature Coefficient Specified
- Available in Tape and Reel
- Response Time Typically $< 1 \text{ ns}$
- CASE/B: Void-free, transfer-molded, thermosetting plastic

Part Electrical Specifications

Product	Compliance	Status	Dir	$V_{(BR)}$ Typ (V)	P_{PK} Max (W)	V_{RWM} Max (V)	I_R Max (uA)	V_C Max (V)	Package Type
1SMC12AT3G	AEC Qualified Pb-free Halide free	Active	Unidirectional	14	1500	12	5	19.9	SMC-2

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

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