



Product Overview

1SMB12A: Transient Voltage Suppressor, Unidirectional, 12 V, 600 Watt

For complete documentation, see the data sheet

Product Description

The SMB 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 SMB series is supplied in ON Semiconductor's exclusive, cost-effective, highly reliable Surmetic package and is ideally suited for use in communication systems, numerical controls, process controls, medical equipment, business machines, power supplies and many other industrial/consumer applications.

Features

- Standard Zener Breakdown Voltage Range - 6.4 to 200 V
- Stand-off Voltage Range - 5 to 170 V
- Peak Power - 600 Watts @ 1 ms
- Maximum Clamp Voltage @ Peak Pulse Current
- Low Leakage < 5 μ A Above 10 V
- UL Recognition
- Response Time is Typically < 1 ns
- CASE: Void-free, transfer-molded, thermosetting plastic
- FINISH: All external surfaces are corrosion resistant and leads are readily solderable
- POLARITY: Cathode indicated by molded polarity notch. When operated in zener mode, will be positive with respect to anode

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
1SMB12AT3G	Pb-free Halide free	Active	Unidirectional	14	600	12	5	19.9	SMB-2
SZ1SMB12AT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Unidirectional	14	600	12	5	19.9	SMB-2

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

Created on: 7/11/2015