



Product Overview

SA12A: Transient Voltage Suppressor, MiniMOSORB[®], Unidirectional, 12 V, 500 Watt

For complete documentation, see the data sheet

Product Description

The SA5.0A 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 SA5.0A series is supplied in ON Semiconductor's exclusive, cost-effective, highly reliable Surmetic axial leaded 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

- Working Peak Reverse Voltage Range - 5 to 170 V
- Peak Power - 500 Watts @ 1 ms
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Maximum Clamp Voltage @ Peak Pulse Current
- Low Leakage < 1 μ A Above 8.5 V
- UL 497B for Isolated Loop Circuit Protection
- Maximum Temperature Coefficient Specified
- Response Time is Typically < 1 ns

Mechanical Characteristics:

- CASE: Void-free, transfer-molded, thermosetting plastic
- FINISH: All external surfaces are corrosion resistant and leads are readily solderable

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
SA12AG	Pb-free	Active	Unidirectional	14	500	12	1	19.9	Axial Lead-2
	Halide free								
SA12ARLG	Pb-free	Active	Unidirectional	14	500	12	1	19.9	Axial Lead-2
	Halide free								

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

Created on: 7/11/2015