



## RoHS Compliant TVS Circuit Protection Products Surface Mount SM8S24AG

Our Product Introduction

for more products please visit us on [socaydiode.com](http://socaydiode.com)

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SM8S24AG
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Product Name: TVS Diodes
- Package Type: DO-218AB
- Vr: 24V
- Ir@Vr @25 : 5μA
- Ir@Vr @175 : 150μA
- Vbr@It (Min.): 26.7V
- Vbr@It (Max.): 29.5V
- It: 5mA
- Vc@Ipp: 38.9V
- Ipp: 170A
- Storage Temperature: -55°C To +175°C
- Highlight: TVS Circuit Protection Products,  
RoHS Circuit Protection Products



### More Images



## Product Description

RoHS Compliant, Surface Mount Transient Voltage Suppressor SM8S24AG

DATASHEET: [SM8SXXG Series\\_v2309.1.pdf](#)



Recently, SOCAY launched the SM8S24AG series of automotive TVS diode products, aiming to solve the problem of surge suppression in load dump tests encountered in automobiles. The SM8S24AG product has extremely fast response time (sub-nanosecond level) and very high surge absorption ability. Specifically used to protect sensitive electronic equipment in automotive electronic circuit applications from transient voltages caused by transient voltage events. The product complies with **AEC-Q101 certification standards**.

### Description:

The SM8S series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Part Number		Working Peak Reverse Voltage $V_{RWM}$ (V)	Breakdown Voltage $V_{BR}$ (V)		Test Current $I_T$ (mA)	Maximum Reverse Leakage $I_R @ V_{RWM}$ ( $\mu A$ )	Maximum $I_R @ V_{RWM} T_J=175$ ( $\mu A$ )	Maximum Reverse Surge Current $I_{PP}$ (A)	Maximum Clamping Voltage $V_C @ I_{PP}$ (V)
Uni	Bi		Min.	Max.					
SM8S24AG	SM8S24CAG	24.0	26.7	29.5	5.0	10	150	170	38.9

#### Notes:

1. Surge current waveform is defined at 10/1000 $\mu$ S waveform.
2. For all types maximum  $V_F = 1.8$  V at  $I_F = 100$  A measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

### Characteristic

- > Adopts standard surface mount DO-218AB package
- > Peak pulse power at 10 $\times$ 1000 $\mu$ s waveform is 6600W, repetition frequency (duty cycle): 0.01%
- > Fast response time: typically less than 1.0ps from 0 volts to VBR minimum
- > Excellent clamping capability
- > Small leakage current
- > Meet AEC-Q101 certification standards
- > Halogen-free and compliant with RoHS and Reach test standards

### Application

- > I/O interface
- > AC/DC power supply

> Low frequency signal transmission line (RS232, RS485, etc.)



+8618126201429



sylvia@socay.com



socaydiode.com

4/F, Block C, HeHengXing Science & Technology Park, 19 MinQing Road, LongHua District, Shenzhen City,  
GuangDong Province, China