



Bi Directional Automotive TVS Diode SM8S28CAG Low Leakage Current DO-218AB

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SM8S28CAG
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 1-3weeks



Product Specification

- Item: Diodes For Automotive
- Package Size: DO-218AB
- Vr: 28V
- Ir@Vr @25 : 5μA
- Ir@Vr @175 : 150μA
- Vbr@It (Min.): 31.1V
- Vbr@It (Max.): 34.4V
- It: 5mA
- Vc@Ipp: 45.4V
- Ipp: 145A
- Highlight: **Bi Directional Automotive TVS Diode,
Automotive TVS Diode DO-218AB,
Bi Directional TVS Diode**

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Product Description

Bi-Directional TVS SM8S28CAG Transient Voltage Suppressors, Low Leakage Current

DATASHEET: [SM8SXXG Series_v2309.1.pdf](#)

Maximum Ratings (T _A =25℃ unless otherwise noted)			
Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation with a 10/1000μs waveform ①	P _{PP}	6600	W
Peak Pulse Current with a 10/1000μs waveform ①	I _{PP}	See Next Table	A
Power Dissipation on Infinite Heatsink at T _L =25℃	P _D	8.0	W
Operating junction and Storage Temperature Range	T _J , T _{STG}	- 55 to + 175	℃
Peak Forward Surge Current 8.3ms Single Half Sine-wave	I _{FSM}	700	A

Notes:
1. Non-repetitive current pulse per Fig.2 and derated above T_A = 25℃ per Fig.1.

Description:

TVS tubes are widely used for the protection of semiconductors and sensitive devices, usually for diode protection. They are characterised by their fast response time (PS level), small size, high transient pulse suppression power and low clamping voltage

Material

Semiconductor materials, die, resin packages

Function

It's use for AUTOMOTIVE Circuit Protection

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} (μA)	Maximum I _R @ V _{RWM} T _J =175 (μA)	Maximum Reverse Surge Current I _{PP} (A)	Maximum Clamping Voltage V _C @ I _{PP} (V)
Uni	Bi		Min.	Max.					
SM8S28AG	SM8S28CAG	28.0	31.1	34.4	5.0	10	150	145	45.4

Notes:
1. Surge current waveform is defined at 10/1000μs 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.

Application:

Traffic recorder
ADAS Advanced Driver Assistance System
OBD vehicle diagnostic system
DMS Driver condition monitoring Department
Car LED
Cigarette lighter
Car audio



Shenzhen Socay Electronics Co., Ltd.



+8618126201429



sylvia@socay.com



socaydiode.com

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