# Automotive Protection TVS Circuit Protection Components Diodes SM8S22CAG

### **Basic Information**

• Place of Origin: Shenzhen, Guangdong, China

• Brand Name: SOCAY

• Certification: UL,REACH,RoHS,ISO

Model Number: SM8S22CAG
Minimum Order Quantity: 500PCS
Price: Negotiable
Delivery Time: 5-8 work days



## **Product Specification**

• Package Type: DO-218AB

• Vr: 22V

Ir@Vr @25: 5μAIr@Vr @175: 150μA

Vbr@lt (Min.): 24.4VVbr@lt (Max.): 26.9V

• It: 5mA

• Vc@lpp: 35.5V

• lpp: 186A

• Highlight: TVS Circuit Protection Components,

**Automotive Circuit Protection Components,** 

**TVS Circuit Protection Diode** 

### **Product Description**

#### SOCAY TVS Diodes SM8S22CAG, Excellent Clamping Capability

DATASHEET: SM8SXXG Series\_v2309.1.pdf

#### **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		Workin g Peak Revers e Voltage V <sub>RWM</sub> (V)	Breakdown Voltage		Test Curren t I <sub>T</sub> (mA)	Maximu m Reverse Leakage I <sub>R</sub> @ V <sub>RWM</sub> (μA)	V <sub>RWM</sub> T <sub>.I=</sub> 175	Maximu	Clampin
Uni	Bi		Min.	Max.					
SM8S22 AG	SM8S22C AG	22.0	24.4	26.9	5.0	10	150	186	35.5

1. Surge current waveform is defined at 10/1000µS waveform

For all types maximum  $V_F = 1.8 \text{ V}$  at  $I_F = 100 \text{ A}$  measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses pe

#### Features:

Optimized glass passivated chip.

T<sub>J</sub>=175 capability suitable for high reliability and automotive requirement.

6600W peak pulse power capability with a 10/1000µs waveform, repetitive rate (duty cycle): 0.01 %.

Meet ISO7637-2 5a/5b and ISO 16750 load dump test (varied by test condition).

Meet AEC-Q101 qualified.

Low leakage current.

Low forward voltage drop.

Excellent clamping capability.

#### Application:

Automotive Protection.





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