



Automotive Protection TVS Circuit Protection Components Diodes SM8S22CAG

Our Product Introduction

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 : 5μA
- Ir@Vr @175 : 150μA
- Vbr@It (Min.): 24.4V
- Vbr@It (Max.): 26.9V
- It: 5mA
- Vc@Ipp: 35.5V
- Ipp: 186A
- Highlight: TVS Circuit Protection Components,
Automotive Circuit Protection Components,
TVS Circuit Protection Diode

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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		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.					
SM8S22AG	SM8S22CAG	22.0	24.4	26.9	5.0	10	150	186	35.5

Notes:

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

Features:

Optimized glass passivated chip.
 $T_J=175$ capability suitable for high reliability and automotive requirement.
 6600W peak pulse power capability with a 10/1000 μs 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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