



Automotive Protection TVS Diodes SM8S18CAG Peak Pulse Power Dissipation 6600W

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SM8S18CAG
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Product Name: TVS Diodes
- Package Type: DO-218AB
- Vr: 18V
- Ir@Vr @25 : 5μA
- Ir@Vr @175 : 150μA
- Vbr@It (Min.): 20.0V
- Vbr@It (Max.): 22.1V
- It: 5mA
- Vc@Ipp: 29.2V
- Ipp: 226A
- Storage Temperature: -55°C To +175°C
- Highlight: **Automotive TVS Diodes, TVS Diodes 6600W**

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Product Description

TVS Diodes SM8S18CAG, Peak Pulse Power Dissipation 6600W, Protect Sensitive Electronic Equipment

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



Description:

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} (μA)	Maximum Reverse Surge Current I_{PP} (A)	Maximum Clamping Voltage V_C @ I_{PP} (V)
Uni	Bi		Min.	Max.					
SM8S18AG	SM8S18CAG	18.0	20.0	22.1	5.0	10	150	226	29.2

Notes:

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

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 μ s 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.
- Very fast response time.
- RoHS compliant.

Application:

Automotive Protection.



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