



36V SM8S36AG Circuit Protection Components TVS Diode Unidirectional Surface Mount

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SM8S36AG
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- SM8S36AG Package: DO-218AB
- SM8S36AG Vr: 36V
- Ir@Vr @25 : 5μA
- SM8S36AG Ir@Vr @175 : 150μA
- Vbr@It (Min.): 40.0V
- SM8S36AG Vbr@It (Max.): 44.2V
- SM8S36AG It: 5mA
- SM8S36AG Vc@Ipp: 58.1V
- SM8S36AG Ipp: 114A
- Highlight: **36V Circuit Protection Components,
Unidirectional Circuit Protection Components,
36V TVS Diode Unidirectional**

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Product Description

SOCAY 36V Uni-directional TVS Diodes SM8S36AG, Surface Mount Transient Voltage Suppressors

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)
			Min.	Max.					
Uni	Bi								
SM8S10AG	SM8S10CAG	10.0	11.1	12.3	5.0	15	250	388	17.0
SM8S11AG	SM8S11CAG	11.0	12.2	13.5	5.0	10	150	363	18.2
SM8S12AG	SM8S12CAG	12.0	13.3	14.7	5.0	10	150	332	19.9
SM8S13AG	SM8S13CAG	13.0	14.4	15.9	5.0	10	150	307	21.5
SM8S14AG	SM8S14CAG	14.0	15.6	17.2	5.0	10	150	284	23.2
SM8S15AG	SM8S15CAG	15.0	16.7	18.5	5.0	10	150	270	24.4
SM8S16AG	SM8S16CAG	16.0	17.8	19.7	5.0	10	150	254	26.0
SM8S17AG	SM8S17CAG	17.0	18.9	20.9	5.0	10	150	239	27.6
SM8S18AG	SM8S18CAG	18.0	20.0	22.1	5.0	10	150	226	29.2
SM8S20AG	SM8S20CAG	20.0	22.2	24.5	5.0	10	150	204	32.4
SM8S22AG	SM8S22CAG	22.0	24.4	26.9	5.0	10	150	186	35.5
SM8S24AG	SM8S24CAG	24.0	26.7	29.5	5.0	10	150	170	38.9
SM8S26AG	SM8S26CAG	26.0	28.9	31.9	5.0	10	150	157	42.1

SM8S28 AG	SM8S28C AG	28.0	31.1	34.4	5.0	10	150	145	45.4
SM8S30 AG	SM8S30C AG	30.0	33.3	36.8	5.0	10	150	136	48.4
SM8S33 AG	SM8S33C AG	33.0	36.7	40.6	5.0	10	150	124	53.3
SM8S36 AG	SM8S36C AG	36.0	40.0	44.2	5.0	10	150	114	58.1
SM8S40 AG	SM8S40C AG	40.0	44.4	49.1	5.0	10	150	102	64.5
SM8S43 AG	SM8S43C AG	43.0	47.8	52.8	5.0	10	150	95.1	69.4
SM8S45 AG	SM8S45C AG	45.0	50.0	55.3	5.0	10	150	90.8	72.7
SM8S48 AG	SM8S48C AG	48.0	53.3	58.9	5.0	10	150	85.3	77.4
SM8S51 AG	SM8S51C AG	51.0	56.7	62.7	5.0	10	150	80.1	82.4
SM8S54 AG	SM8S54C AG	54.0	60.0	66.3	5.0	10	150	75.8	87.1
SM8S58 AG	SM8S58C AG	58.0	64.4	71.2	5.0	10	150	70.5	93.6
SM8S60 AG	SM8S60C AG	60.0	66.7	73.7	5.0	10	150	68.2	96.8
SM8S64 AG	SM8S64C AG	64.0	71.1	78.6	5.0	10	150	64.1	103.0
SM8S70 AG	SM8S70C AG	70.0	77.8	86.0	5.0	10	150	58.4	113.0
SM8S75 AG	SM8S75C AG	75.0	83.3	92.1	5.0	10	150	54.5	121.0
SM8S78 AG	SM8S78C AG	78.0	86.7	95.8	5.0	10	150	52.4	126.0
SM8S85 AG	SM8S85C AG	85.0	94.4	104.0	5.0	10	150	48.2	137.0

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.

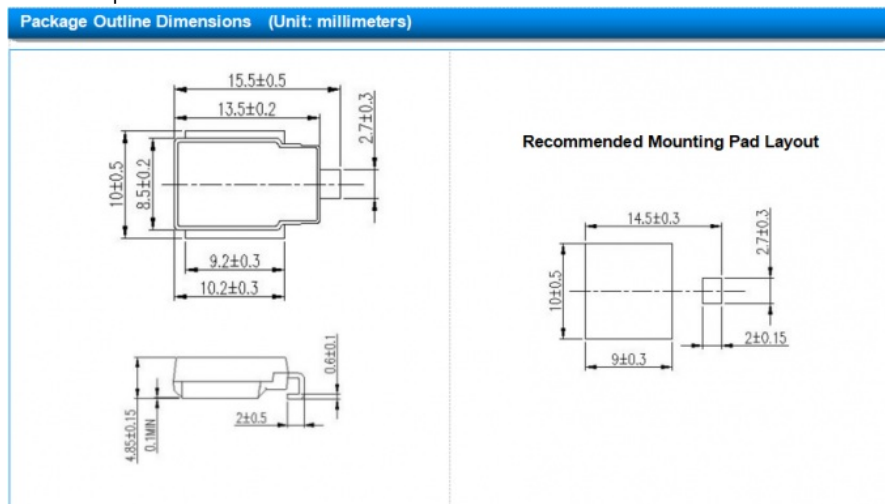
Low leakage current.

Low forward voltage drop.

Excellent clamping capability.

Very fast response time.

RoHS compliant.



Application:

Automotive Protection.

Packaging

Part Number	Component Package	Quantity	Packaging Option
SM8SXXG Series	DO-218AB	500 PCS	13" diameter plastic tape and reel, anode towards the sprocket hole

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