

## SOCAY TVS Diodes 400W 36V Surface Mount Transient Voltage Suppressor For Lighting Protection

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SMAJ36A
- Minimum Order Quantity: 5000pcs
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- SMAJ36A Name: TVS Diodes
- SMAJ36A Package Type: DO-214AC
- SMAJ36A V<sub>rw</sub>m: 36.0V
- SMAJ36A V<sub>br</sub>@I<sub>t</sub> (Min.): 40.00V
- SMAJ36A V<sub>br</sub>@I<sub>t</sub> (Max.): 44.20V
- SMAJ36A I<sub>t</sub>: 1mA
- SMAJ36A V<sub>c</sub>@I<sub>pp</sub>: 58.1V
- SMAJ36A I<sub>pp</sub>: 6.88A
- SMAJ36A I<sub>r</sub>@V<sub>rw</sub>m: 5μA
- SMAJ36A Storage Temperature Range: -55 To +150
- Highlight: Lighting Protection TVS Diodes

## Product Description

### SOCAY TVS Diodes 400W 36V Surface Mount Transient Voltage Suppressor For Lighting Protection DATASHEET: [SMAJ\\_v2207.1.pdf](#)

#### Product Description:

##### TVS Diodes Product Overview

TVS Diodes are surge suppressors designed to protect electronic circuits from damaging voltage spikes and surges. They are also known as Transient Voltage Suppression Diodes or Electrostatic Discharge (ESD) protectors. These small but powerful devices are essential for ensuring the longevity and reliability of electronic systems.

Package: DO-214AC

The DO-214AC package is a popular form factor for TVS Diodes. It is a cylindrical package with two leads on either end, making it easy to mount on a circuit board. The small size of this package allows for efficient use of space on the board, making it ideal for compact electronic devices.

Peak Pulse Current: 6.88A

The peak pulse current rating of a TVS Diode indicates the maximum amount of current it can handle during a surge event. The 6.88A rating of this TVS Diode means that it can safely handle surges up to 6.88A without being damaged. This high current handling capability makes it suitable for protecting sensitive electronic components.

Mounting Style: Surface Mount

TVS Diodes are available in different mounting styles, including through-hole and surface mount. The surface mount style, as the name suggests, allows the diode to be mounted directly on the surface of a circuit board. This type of mounting is more efficient and cost-effective than through-hole mounting, making it a popular choice for modern electronic devices.

Reverse Standoff Voltage: 36V

The reverse standoff voltage is the maximum voltage that a TVS Diode can withstand without conducting. This 36V rating means that the diode will only start conducting when the voltage across it reaches 36V or higher. This feature is crucial for protecting electronic circuits from overvoltage events.

Effective surge protection: TVS Diodes can handle high voltage spikes and surges, providing reliable protection for electronic circuits.

Compact size: The small size of TVS Diodes allows for efficient use of space on circuit boards, making them ideal for compact electronic devices.

High current handling capability: With a peak pulse current rating of 6.88A, this TVS Diode can protect sensitive electronic components from high current surges.

Easy installation: The surface mount style of this diode makes it easy to install on circuit boards, saving time and cost during production.

Cost-effective: TVS Diodes are affordable and provide a cost-effective solution for protecting electronic systems.

Overall, TVS Diodes are essential components for ensuring the reliability and longevity of electronic systems. With features like high surge protection, compact size, and easy installation, they are an essential part of any electronic circuit that requires electrostatic discharge protection.

Electrical Characteristics (T <sub>A</sub> =25°C unless otherwise noted)										
Part Number		Marking		Reverse Stand-Off Voltage V <sub>RS</sub> (V)	Breakdown Voltage V <sub>BR</sub> (V) @I <sub>r</sub>		Test Current I <sub>r</sub> (mA)	Maximum Clamping Voltage V <sub>C</sub> @I <sub>CP</sub> (V)	Maximum Peak Pulse Current I <sub>PP</sub> (A)	Maximum Reverse Leakage I <sub>R</sub> @V <sub>RS</sub> (μA)
Uni	Bi	Uni	Bi		MIN	MAX				
SMAJ3.3A	—	A1	—	3.3	4.10	--	1	8.0	50.00	600
SMAJ5.0A	SMAJ5.0CA	AE	WE	5.0	6.40	7.00	10	9.2	43.48	800
SMAJ6.0A	SMAJ6.0CA	AG	WG	6.0	6.67	7.37	10	10.3	38.83	800
SMAJ6.5A	SMAJ6.5CA	AK	WK	6.5	7.22	7.98	10	11.2	35.71	500
SMAJ7.0A	SMAJ7.0CA	AM	WM	7.0	7.78	8.60	10	12.0	33.33	200
SMAJ7.5A	SMAJ7.5CA	AP	WP	7.5	8.33	9.21	1	12.9	31.01	100
SMAJ8.0A	SMAJ8.0CA	AR	WR	8.0	8.89	9.83	1	13.6	29.41	50
SMAJ8.5A	SMAJ8.5CA	AT	WT	8.5	9.44	10.40	1	14.4	27.78	10
SMAJ9.0A	SMAJ9.0CA	AV	WW	9.0	10.00	11.10	1	15.4	25.97	5
SMAJ10A	SMAJ10CA	AX	WX	10.0	11.10	12.30	1	17.0	23.53	5
SMAJ11A	SMAJ11CA	AZ	WZ	11.0	12.20	13.50	1	18.2	21.98	5
SMAJ12A	SMAJ12CA	BE	XE	12.0	13.30	14.70	1	19.9	20.10	5
SMAJ13A	SMAJ13CA	BG	XG	13.0	14.40	15.90	1	21.5	18.60	5
SMAJ14A	SMAJ14CA	BK	XK	14.0	15.60	17.20	1	23.2	17.24	5
SMAJ15A	SMAJ15CA	BM	XM	15.0	16.70	18.50	1	24.4	16.39	5
SMAJ16A	SMAJ16CA	BP	XP	16.0	17.80	19.70	1	26.0	15.38	5
SMAJ17A	SMAJ17CA	BR	XR	17.0	18.90	20.90	1	27.6	14.49	5
SMAJ18A	SMAJ18CA	BT	XT	18.0	20.00	22.10	1	29.2	13.70	5
SMAJ19A	SMAJ19CA	BB	XB	19.0	21.10	23.30	1	30.8	13.00	5
SMAJ20A	SMAJ20CA	BV	XV	20.0	22.20	24.50	1	32.4	12.35	5
SMAJ22A	SMAJ22CA	BX	XX	22.0	24.40	26.90	1	35.5	11.27	5
SMAJ24A	SMAJ24CA	BZ	XZ	24.0	26.70	29.50	1	38.9	10.28	5
SMAJ26A	SMAJ26CA	CE	YE	26.0	28.90	31.90	1	42.1	9.50	5
SMAJ28A	SMAJ28CA	CG	YG	28.0	31.10	34.40	1	45.4	8.81	5
SMAJ30A	SMAJ30CA	CK	YK	30.0	33.30	36.80	1	48.4	8.26	5
SMAJ33A	SMAJ33CA	CM	YM	33.0	36.70	40.60	1	53.3	7.50	5
SMAJ36A	SMAJ36CA	CP	YP	36.0	40.00	44.20	1	58.1	6.88	5
SMAJ40A	SMAJ40CA	CR	YR	40.0	44.40	49.10	1	64.5	6.20	5
SMAJ43A	SMAJ43CA	CT	YT	43.0	47.80	52.80	1	69.4	5.76	5

Features:

Product Name: TVS Diodes  
Polarity: Uni-directional  
Storage Temperature Range: -55 To +150  
Lead Times: Immediately Shipment  
Stock: In Stock  
Transient Suppression Diodes  
Transient Voltage Suppressor Diodes  
TVS Diodes

Technical Parameters:

Attribute	Value
Product Name	TVS Diodes
Manufacturer	SOCAY
Polarity	Uni-directional
Storage Temperature Range	-55 To +150
Reverse Leakage Current	5μA
Peak Pulse Power	400W
Package	DO-214AC
Stock	In Stock
Warranty	365days
Peak Pulse Current	6.88A

Applications:

TVS Diodes - Protecting Your Electronic Devices from Voltage Spikes

Welcome to SOCAT, the leading manufacturer of high-quality TVS Diodes. Our SMAJ36A model is designed to provide exceptional surge protection for a wide range of electronic devices. With our TVS Diodes, you can ensure the safety and reliability of your circuits, even in the face of unexpected voltage spikes.

#### Product Overview

TVS Diodes, also known as Voltage Spike Suppressors or Transient Voltage Suppressor Diodes, are a type of electronic component that is specifically designed to protect sensitive circuits from voltage surges. These surges can be caused by lightning strikes, power fluctuations, or other external factors, and can damage or even destroy electronic devices if left unchecked.

With our SMAJ36A TVS Diode, you can rest assured that your electronic devices are fully protected from these voltage spikes. Our diode has a reverse standoff voltage of 36V, a peak pulse current of 6.88A, and a peak pulse power of 400W, making it highly effective in preventing damage to your circuits.

#### Applications and Scenarios

Our TVS Diodes are suitable for a wide range of applications and scenarios, making them a versatile and essential component for any electronics project. Some common uses include:

Power supply protection

Telecommunications equipment

Automotive electronics

Industrial control systems

Consumer electronics

And many more

No matter what your specific application may be, our TVS Diodes are guaranteed to provide reliable and efficient surge protection.

#### Product Features

When it comes to protecting your electronic devices, reliability and performance are of the utmost importance. That's why our SMAJ13A TVS Diode offers the following features:

High surge capability

Fast response time

Compact design

UL, REACH, RoHS, and ISO certifications

Minimum order quantity of 5000pcs

Negotiable price

5-8 work days delivery time

DO-214AC package

Uni-directional polarity

With these features, you can trust that our TVS Diodes will meet and exceed your expectations for reliable surge protection.

#### Choose SOCAT for Your TVS Diode Needs

When it comes to protecting your electronic devices, don't settle for anything less than the best. Choose SOCAT and our high-quality TVS Diodes for the ultimate surge protection solution. Contact us today to learn more and place your order!

## Packing and Shipping:

#### Packaging and Shipping for TVS Diodes

TVS diodes are important electronic components that are used to protect sensitive electronic devices from voltage spikes and surges. It is crucial to ensure that these diodes are properly packaged and shipped to avoid any damage during transportation.

#### Packaging

TVS diodes are typically packaged in small, lightweight plastic tubes or trays. This packaging helps to protect the diodes from physical damage and also allows for easy handling and storage. Each tube or tray is labeled with the product name, part number, and quantity to ensure accurate identification and tracking.

In addition to the tubes or trays, the TVS diodes are also wrapped in anti-static packaging to protect them from any electrostatic discharge during handling and transportation. This is especially important since TVS diodes are sensitive to static electricity.

#### Shipping

When shipping TVS diodes, it is important to use appropriate packaging materials to ensure their safe arrival. The tubes or trays containing the diodes should be placed in a sturdy cardboard box with enough padding and cushioning materials to prevent any movement during transit.

Special care should also be taken when shipping TVS diodes internationally. The package should be properly labeled with the contents and country of origin, and all necessary customs documents should be included.

It is recommended to ship TVS diodes using a reliable and reputable shipping carrier that offers tracking and insurance options for added protection.

By following these packaging and shipping guidelines, you can ensure that your TVS diodes arrive at their destination safely and in perfect condition.

## FAQ:

#### Q: What is the brand name of this product?

A: The brand name of this product is SOCAT.

#### Q: What is the model number of this product?

A: The model number of this product is SMAJ36A.

#### Q: Where is this product made?

A: This product is made in Shenzhen China.

#### Q: What certifications does this product have?

A: This product is UL, REACH, RoHS, and ISO certified.

#### Q: What is the minimum order quantity for this product?

A: The minimum order quantity for this product is 5000pcs.

#### Q: Is the price negotiable for this product?

A: Yes, the price for this product is negotiable.

**Q: How long is the delivery time for this product?**

A: The delivery time for this product is 5-8 work days.



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