# SMD Package 60V Schottky Rectifier SS16A Schottky Diode DO-214AC

# **Basic Information**

• Place of Origin: Shenzhen, Guangdong, China

• Brand Name: SOCAY

Certification: REACH,RoHS,ISO

Model Number: SS16A
Minimum Order Quantity: 5000PCS
Price: Negotiable
Delivery Time: 5-8 work days



# **Product Specification**

• Procuct Component Name: Schottky Diode

• Package: DO-214AC(SMA)

Max. VRRM: 60V
Max. VRMS: 42V
Max. VDC: 60V
Max. IF(AV): 1A
SS16A IFSM: 40A
Dv/dt (rated VR): 10000V/µs



# **Product Description**

# SMD Package 60V Schottky Rectifier SS16A Schottky Diode DO-214AC

# Schottky Barrier Diode DATASHEET: SS12A~SS120A(SMA)\_v2211.1.pdf

# SS16A Schottky Diode Properties:

Schottky Rectifier SS16A, it has low profile package You know that, it is ideal for automated placement

Besides, its reverse recovery time is ultrafast

Schottky Rectifier SS16A has low power losses, and high efficiency

Not only low forward voltage drop

But also surge capability is high

TL High temperature soldering: 260 /10 seconds at terminals

This Schottky Rectifier SS16A Component is in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

# SS16A Schottky Diode Physical Parameters:

Schottky Rectifier SS16A Case: JEDEC DO-214AC molded plastic

The terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D

Its Polarity: Laser band denotes cathode end

# SS16A Schottky Diode Major Ratings and Properties:

Schottky Diode I <sub>F(AV)</sub>	1.0A
, num	20 V to 200 V
Peak forward surge current I <sub>FSM</sub>	40A
I -	0.50V, 0.55V, 0.70V, 0.85V,0.95V
SS16A T <sub>j max.</sub>	125

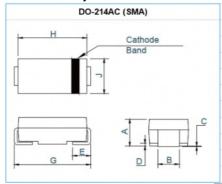
# Schottky Diode Maximum Ratings & Thermal Data (T<sub>A</sub> = 25 unless otherwise noted):

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Schottky Items	Symb ol	SS12 A	SS13 A	SS14 A	SS15 A	SS16 A		SS11 0A	SS11 5A	SS120 A	Unit
	Schott ky V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	v
Schottky Diode Max. RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Max. DC blocking voltage	Schott ky V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V
Schottky Max. average forward rectified current	I <sub>F(AV)</sub>	1									A
Schottky Diode Peak forward surge current		40									A
cnange (rated V⊳)	dv/dt	10000									V/µs
Schottky Thermal resistance (1)	$R_{\theta JL}$	35									/W
Schottky Diode T <sub>J</sub> ,T <sub>STG</sub>	T <sub>J</sub> ,T <sub>ST</sub> G	-65 10	_	.:45 O (	2 0 0	" <i>(</i> F.O.:	Ore .			d avac -	
Note 1: Schottky is I	viounte	a on P.	C.B. W	'Iτη U.2	: x U.2	(5.U X	5.UMI	т) сор	per pa	a areas	

# Schottky Diode Electrical Data ( $T_A = 25$ unless otherwise noted):

Schottky Diode Items	Schottky Condition	Schottky Conditions		SS12A	SS13A~ SS14A	SS15A~ SS16A	SS18A~ SS110A	SS115A~ SS120A	Unit
Instantaneous forward voltage	Schottky IF	=1.0A(2)	VF	0.50	0.55	0.70	0.85	0.95	V
Schottky Diode Ir	VR=VDC	Tj=25	İR	0.5		•	•		mΑ
		Tj=100		5.0					
Note 2: Schottky Diode Pulse test:300µs pulse width,1% duty cycle.									

#### SS16A Schottky Diode Dimensions:



Dimensions									
Dim	Inc	hes	Millimeters						
Dim	Min	Max	Min	Max					
Α	0.067	0.093	1.7	2.36					
В	0.049	0.067	1.25	1.7					
С	0.002	0.008	0.05	0.2					
D		0.02	_	0.51					
E	0.03	0.06	0.76	1.52					
G	0.185	0.209	4.7	5.31					
Н	0.157	0.185	4	4.7					
J	0.086	0.11	2.18	2.8					

# SS16A Schottky Diode Notes:

Product SS16A Schottky Diode is intended for use in general electronics applications.

Product SS16A Schottky Diode should be worked less than the ratings; if the SS16A is exceeded, it may cause permanent damage, or introduce latent failure mechanisms.

The absolute maximum ratings of the SS16A are rated values and must not be exceeded during operation. The following are the general derating methods you design a circuit with a device.

 $I_{\text{F(AV)}}$  : We advice that the worst case current of the product be no greater than 80% .

I<sub>FSM</sub>: This rating of SS16A specifies the non-repetitive peak current. This is only applied for an abnormal operation, which the general during the lifespan of the device.

T<sub>J</sub>: Derate this rating of SS16A Schottky Diode when using a device in order to ensure high reliability. We advice that the device should be used at a T<sub>J</sub> of 100 min.





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