



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

Our Product Introduction

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

- Product 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



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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 $I_{F(AV)}$	1.0A
Schottky Diode V_{RRM}	20 V to 200 V
Peak forward surge current I_{FSM}	40A
SBD V_F	0.50V, 0.55V, 0.70V, 0.85V, 0.95V
SS16A $T_{j \max.}$	125

Schottky Diode Maximum Ratings & Thermal Data ($T_A = 25$ unless otherwise noted):

Schottky Items	Symbol	SS12A	SS13A	SS14A	SS15A	SS16A	SS18A	SS110A	SS115A	SS120A	Unit
Schottky Max. repetitive peak reverse voltage	Schottky V_{RRM}	20	30	40	50	60	80	100	150	200	V
Schottky Diode Max. RMS voltage	Schottky V_{RMS}	14	21	28	35	42	56	70	105	140	V
Max. DC blocking voltage	Schottky V_{DC}	20	30	40	50	60	80	100	150	200	V
Schottky Max. average forward rectified current	$I_{F(AV)}$	1									A
Schottky Diode Peak forward surge current	Schottky I_{FSM}	40									A
Schottky Diode Voltage rate of change (rated V_R)	dv/dt	10000									V/ μ s
Schottky Thermal resistance (1)	$R_{\theta JL}$	35									/W
Schottky Diode T_J, T_{STG}	T_J, T_{STG}	-65 to +125									

Note 1: Schottky is Mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

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

Schottky Diode Items	Schottky Conditions	Symbol	SS12A	SS13A~SS14A	SS15A~SS16A	SS18A~SS110A	SS115A~SS120A	Unit
Instantaneous forward voltage	Schottky $I_F=1.0A(2)$	V_F	0.50	0.55	0.70	0.85	0.95	V
Schottky Diode I_r	$V_R=V_{DC}$ $T_J=25$	I_R	0.5					mA
	$T_J=100$		5.0					

Note 2: Schottky Diode Pulse test: 300 μ s pulse width, 1% duty cycle.

SS16A Schottky Diode Dimensions:

DO-214AC (SMA)		Dimensions			
Dim		Inches		Millimeters	
		Min	Max	Min	Max
A		0.067	0.093	1.7	2.36
B		0.049	0.067	1.25	1.7
C		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
H		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.

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

I_{FSM} : 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_J : 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_J of 100 min.



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