SMA Package Schottky Rectifier SS24A Schottky Barrier Diode VRRM 40V 2A DO-214AC

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH,RoHS,ISO
- Model Number: SS24A
- Minimum Order Quantity: 5000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Product Name: Schottky Barrier Diode
- Package: DO-214AC(SMA)
- Max. VRRM: 40V
- Max. VRMS: 28V
- Max. VDC: 40V
- Max. Average Forward Rectified Current: 2A
- IFSM: 50A
- RθJL: 35 /W
- Highlight: **SMA Package Schottky Rectifier**, **DO-214AC Schottky Rectifier**, **SS24A Schottky Barrier Diode**

More Images

Product Description

SMA Package Schottky Rectifier SS24A Schottky Barrier Diode VRRM 40V 2A Forward Rectified Current

SBD DATASHEET: SS22A~SS220A(SMA)_v2211.1.pdf

Schottky Rectifier SS24A Distinguishing Feature:

Low profile package for more application.
Suitable for automated placement
Very quick reverse recovery time
High temperature soldering: 260 °C/10 seconds at terminals
Not high power losses, not low efficiency
Not high forward voltage drop
Not low surge capability
Not low temperature soldering :

Schottky Rectifier SS24A Mechanical Data:
Schottky Rectifier SS24A Case: JEDEC SMA molded plastic
SS24A Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
Schottky Rectifier Polarity: Laser band denotes cathode end

Schottky Rectifier SS24A Main Ratings and Features:

Schottky Rectifier $I_{F(AV)}$	2.0A
Schottky Rectifier V_{RRM}	20 V to 200 V
SS24A I_{FSM}	50A
Schottky Rectifier SS24A V_F	0.50V, 0.55V, 0.70V, 0.85V,0.95V
$T_{j\ max.}$	125

Schottky Rectifier SS24A Max. Ratings & Thermal Characteristics:

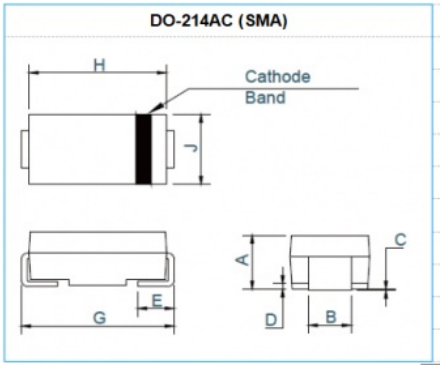
Items	**Symbol**	**SS22A**	**SS23A**	**SS24A**	**SS25A**	**SS26A**	**SS28A**	**SS210A**	**SS215A**	**SS220A**	**Unit**
Schottky Rectifier Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Schottky Rectifier Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	2									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50									A
Voltage rate of change (rated V_R)	dv/dt	10000									V/μs
Schottky Rectifier Thermal resistance from junction to lead (1)	$R_{\theta JL}$	35									/W
Operating junction and storage temperature range	T_J,T_{STG}	–65 to +125									
Note 1: Mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.											

SBD SS24A Electrical Characteristics (T_A = 25 unless otherwise noted):

Items	Test conditions	Symbol	SS22A	SS23A~SS24A	SS25A~SS26A	SS28A~SS210A	SS215A~SS220A	Unit

Instantaneous forward voltage	IF=2.0A(2)		VF	0.50	0.55	0.70	0.85	0.95	V
Reverse current	VR=VDC	Tj=25	IR	0.5					mA
		Tj=100		5.0					
Note 2: Pulse test:300μs pulse width,1% duty cycle.									

Schottky Rectifier SS24A Dimensions:



Dim	Dimensions			
	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

Schottky Rectifier SS24A Notice:

SBD SS24A is intended for use in general electronics applications.

SS24A should be worked less than the ratings; if exceeded, it may cause permanent damage,or introduce latent failure mechanisms. Ensure safety.

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

Maximum average forward rectified current : The worst case current be no greater than 80% . It is very important.

Peak forward surge current 8.3ms single half sine-wave superimposed on rated load : This rating specifies the non-repetitive peak current. This is only applied for an abnormal operation, which the general during the lifespan of the device.

Operating junction temperature : Derate this rating when using a device in order to ensure high reliability. We recommend that the device should be used at a T_J of below 100 .

SOCAY®

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