SOCAY SS14A Schottky Barrier Diode VRRM 40V VRMS 28V SMD SBD

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH,RoHS,ISO
- Model Number: SS14A
- Minimum Order Quantity: 5000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Name: Schottky Barrier Diode
- Package Type: DO-214AC(SMA)
- Maximum Repetitive Peak Reverse Voltage: 40V
- Maximum RMS Voltage: 28V
- Maximum DC Blocking Voltage: 40V
- Maximum Average Forward Rectified Current: 1A
- Peak Forward Surge Current: 40A
- Thermal Resistance: 35 /W

Product Description

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SBD DATASHEET: SS12A~SS120A(SMA)_v2211.1.pdf

SBD SS14A Characteristics:
SBD is a low profile package
It is deal for automated placement
It owns ultrafast reverse recovery time
Very low power losses and very high efficiency
SBD SS14A has low forward voltage drop
Excellent High surge capability
Excellent High temperature soldering:
260 /10 seconds at terminals
Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

SBD SS14A Mechanical Data:
SS14A Case: JEDEC DO-214AC molded plastic
The Product's Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
SS14A's Polarity: Laser band denotes cathode end

SBD SS14A Main Ratings and Features:

SBD $I_{F(AV)}$	1.0A
SBD V_{RRM}	40 V
I_{FSM}	40A
V_F	0.50V, 0.55V, 0.70V, 0.85V,0.95V
$T_{j\ max.}$	125

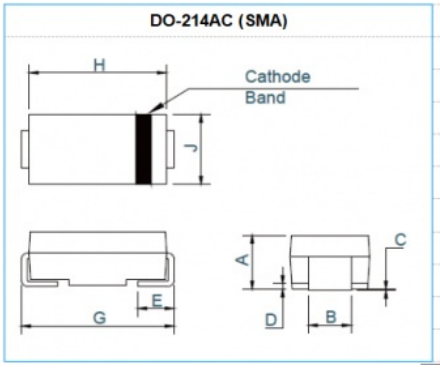
SBD SS14A Maximum Ratings & Thermal Characteristics (T_A = 25 unless otherwise noted):

Items	Symbol	SS12A	SS13A	SS14A	SS15A	SS16A	SS18A	SS110A	SS115A	SS120A	Unit
SBD Max. Vrrm	V_{RRM}	20	30	40	50	60	80	100	150	200	V
SBD Max. Vrms	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Max. Vdc	V_{DC}	20	30	40	50	60	80	100	150	200	V
SBD Max. If(av)	$I_{F(AV)}$	1									A
SBD Peak forward surge current	I_{FSM}	40									A
SBD Voltage rate of change	dv/dt	10000									V/μs
SBD Thermal resistance	$R_{\theta JL}$	35									/W
SBD 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 SS14A Electrical Characteristics (T_A = 25 unless otherwise noted):

SBD Items	SBD Test conditions		Symbol	SS12A	SS13A~SS14A	SS15A~SS16A	SS18A~SS110A	SS115A~SS120A	Unit
Instantaneous Vf	IF=1.0A(2)		VF	0.50	0.55	0.70	0.85	0.95	V
SBD Ir	VR=VDC	Tj=25	IR	0.5					mA
		Tj=100		5.0					
Note 2: Pulse test:300μs pulse width,1% duty cycle.									

SBD SS14A 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

SBD SS14A Notice:
SBD SS14A is intended for use in general electronics applications.
SS14A should be worked less than the ratings; if it is exceeded, it may cause permanent damage,or introduce latent failure mechanisms. So, be careful
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.
$I_{F(AV)}$: The worst case current be no greater than 80% . It is very important.
I_{FSM} : 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.
T_J : 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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