

20V Repetitive Peak Reverse Voltage SS12A Schottky Barrier Diode SMA Package

Shenzhen, Guangdong, China

Basic Information

- Place of Origin:
- Brand Name:
- REACH,RoHS,ISO • Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Delivery Time:



SS12A

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Product Specification

- Component Name:
- Package Type:
- VRRM: • VRMS:
- VDC:
- IF(AV): • IFSM:

- Dv/dt:

20V
14V
20V
1A
40A
10000V/µs

DO-214AC(SMA)

Schottky Barrier Diode

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Product Description

20V Repetitive Peak Reverse Voltage SS12A Schottky Barrier Diode SMA Package

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

Schottky Barrier Diode Features:

Low profile package Ideal for automated placement Ultrafast reverse recovery time Low power losses, high efficiency Low forward voltage drop High surge capability High temperature soldering: 260 /10 seconds at terminals Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

Schottky Barrier Diode Mechanical Data:

Case: JEDEC DO-214AC molded plastic Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D Polarity: Laser band denotes cathode end

Schottky Barrier Diode Major Ratings and Characteristics:

F(AV)	1.0A
V _{RRM}	20 V to 200 V
IFSM	40A
V _F	0.50V, 0.55V, 0.70V, 0.85V,0.95V
T _{j max.}	125

Schottky Barrier Diode Maximum Ratings & Thermal Characteristics (T_A = 25 unless otherwise noted):

Items	Symb ol		SS13 A			SS16 A		SS11 0A	SS11 5A	SS120 A	Unit
Maximum repetitive peak reverse voltage		20	30	40	50	60	80	100	150	200	v
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						A					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{ESM}	40									A
Voltage rate of change (rated V _R)		10000									V/µs
Thermal resistance from junction to lead ⁽¹⁾		35									/W
Operating junction and storage temperature range	T _J ,T _{ST} G	-65 (0									
Note 1: Mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.											

Schottky Barrier Diode Electrical Characteristics (T_A = 25 unless otherwise noted):

Items	Test con	ditions	Symbol	SS12A	SS13A~ SS14A	SS15A~ SS16A	SS18A~ SS110A	SS115A~ SS120A	Unit
Instantaneous forward voltage	IF=1.0A(2)		VF	0.50	0.55	0.70	0.85	0.95	V
Reverse current	VR=VDC	Tj=25	IR	0.5			-		mΑ
		Tj=100		5.0					
Note 2: Pulse test:300µs pulse width,1% duty cycle.									

Schottky Barrier Diode SS12A Diode Dimensions:



Schottky Barrier Diode SS12A Notice:

Product is intended for use in general electronics applications.

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

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.

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

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 be used at a Jof below 100 .





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