



## SSCSS52DA THRU SSCSS520DA

### Schottky Barrier Diode

#### ● Features

- ✧ Reverse Voltage - 20 to 200 V
- ✧ Forward Current - 5.0A
- ✧ Low profile package
- ✧ Ideal for automated placement
- ✧ Ultrafast reverse recovery time
- ✧ Low power losses, high efficiency
- ✧ Low forward voltage
- ✧ High surge capability
- ✧ UL Flammability Classification Rating 94V-0
- ✧ High temperature soldering: 260°C/10 seconds at terminals

#### ● PIN configuration



**SMA/DO-214AC**



**Circuit Diagram**



**Marking**

(SS54:SSCSS54DA Marking Code)

#### ● Applications

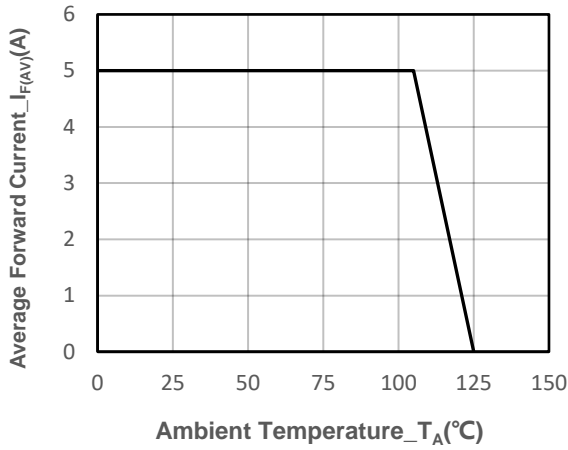
- ✧ Low Voltage
- ✧ High-Frequency Inverters
- ✧ Free Wheeling
- ✧ Polarity Protection

#### ● Absolute maximum rating @T<sub>A</sub>=25°C

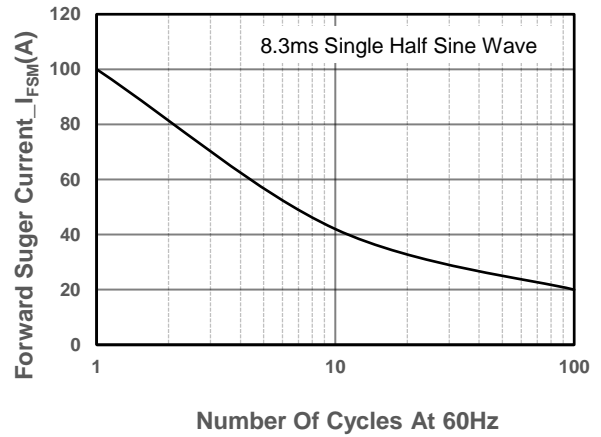
Parameter	Symbol	SS52DA	SS54DA	SS56DA	SS510DA	SS515DA	SS520DA	Unit
Maximum Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	5.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	100						A
Max Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	0.6	0.6	0.75	0.85	0.95	0.95	V
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> =125 °C	I <sub>R</sub>	500						μA
		20						mA
Operating Temperature	T <sub>J</sub>	-55 ~ +125						°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150						°C



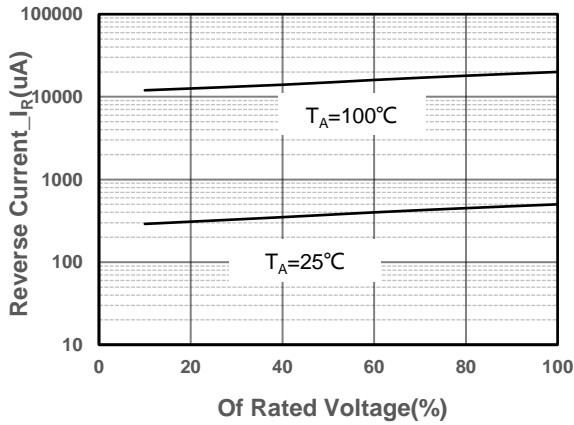
## ● Typical Performance Characteristics



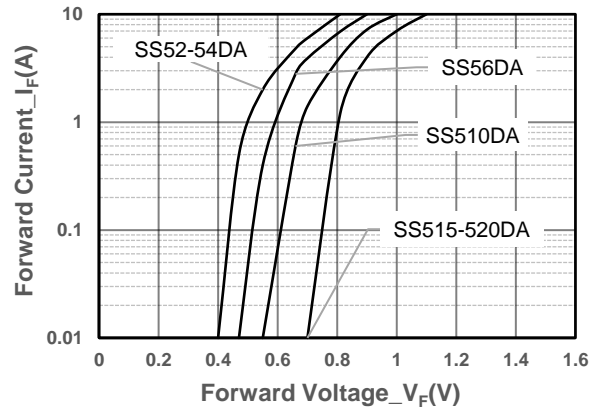
$I_o$  -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



## ● Package Information

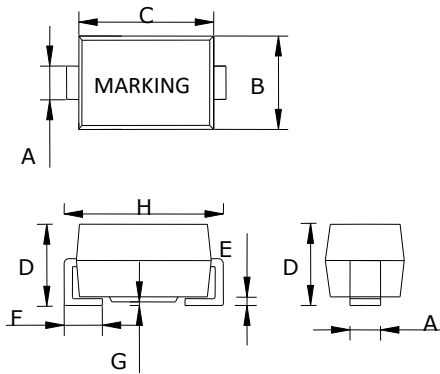
### Ordering Information

Device	Package	Marking	Qty per Reel	Reel diameters
SSCSS52DA	SMA/DO-214AC	SS52	5000	13inch
SSCSS54DA	SMA/DO-214AC	SS54	5000	13inch
SSCSS56DA	SMA/DO-214AC	SS56	5000	13inch
SSCSS510DA	SMA/DO-214AC	SS510	5000	13inch
SSCSS515DA	SMA/DO-214AC	SS515	5000	13inch
SSCSS520DA	SMA/DO-214AC	SS520	5000	13inch

### Mechanical Data

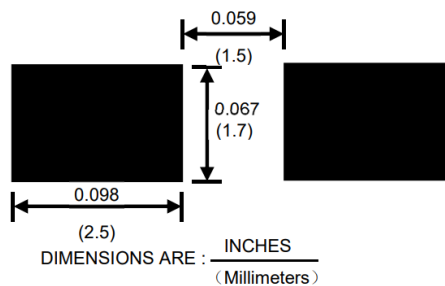
Case: SMA/DO-214AC

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters		
	Min	Nom	Max
A	1.40	1.50	1.60
B	2.50	2.67	2.90
C	4.00	4.40	4.50
D	2.00	2.25	2.45
E	0.05	0.200	0.203
F	0.76	1.14	1.52
G	-	-	0.203
H	4.90	5.0	5.30

### Recommended Pad outline





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