



## SSCSSS32D1 THRU SSCSSS320D1

### Schottky Barrier Diode

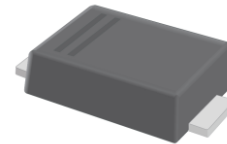
#### ● Features

- ✧ Reverse Voltage - 20 to 200 V
- ✧ Forward Current - 3.0A
- ✧ 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

#### ● Applications

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

#### ● PIN configuration



**SOD-123FL**



**Circuit Diagram**



**Marking**

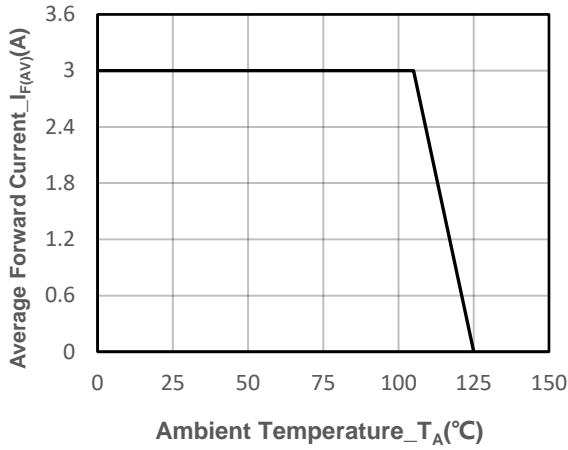
(SS34:SSCSSS34D1 Marking Code)

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

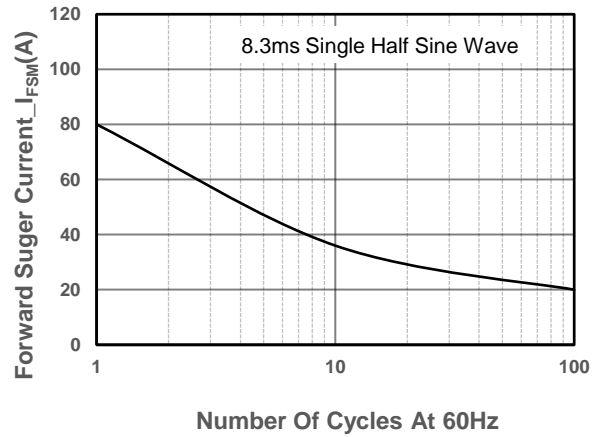
Parameter	Symbol	SS32D1	SS34D1	SS36D1	SS310D1	SS315D1	SS320D1	Unit
Maximum Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	80						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



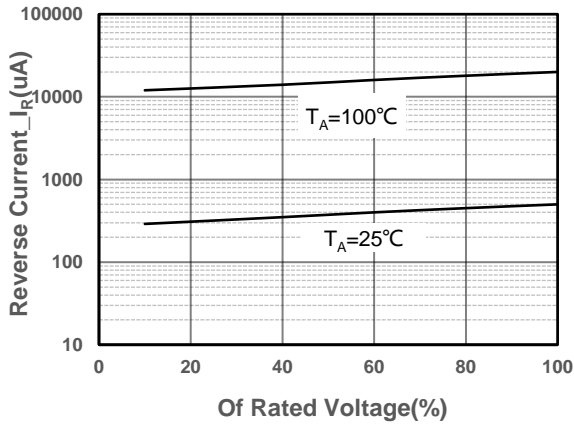
## ● Typical Performance Characteristics



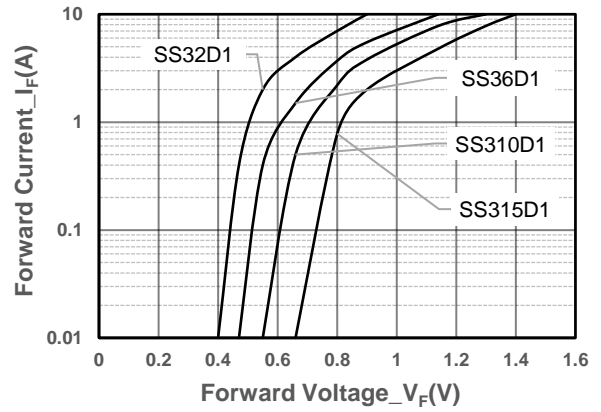
$I_o$  -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



## ● Package Information

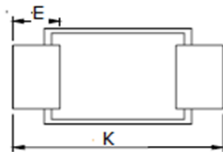
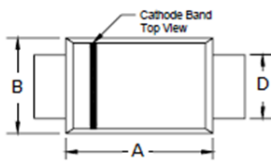
### Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSSS32D1	SOD-123FL	SS32	3000	7 Inch
SSCSSS34D1	SOD-123FL	SS34	3000	7 Inch
SSCSSS36D1	SOD-123FL	SS36	3000	7 Inch
SSCSSS310D1	SOD-123FL	SS310	3000	7 Inch
SSCSSS315D1	SOD-123FL	SS315	3000	7 Inch
SSCSSS320D1	SOD-123FL	SS320	3000	7 Inch

### Mechanical Data

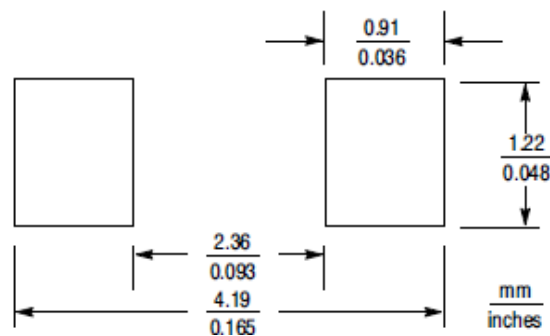
Case: SOD-123FL

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters	
	Min	Max
A	2.50	2.90
B	1.50	1.90
C	0.095	1.20
D	0.70	1.20
E	0.35	0.85
H	0	0.1
K	3.40	3.90

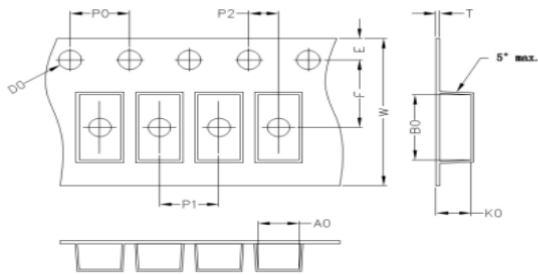
### Recommended Pad outline



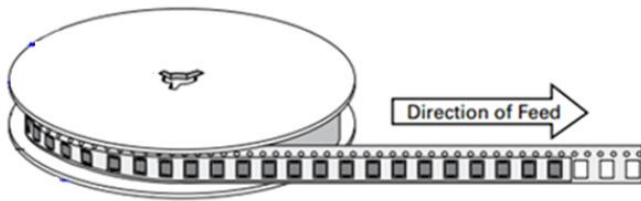
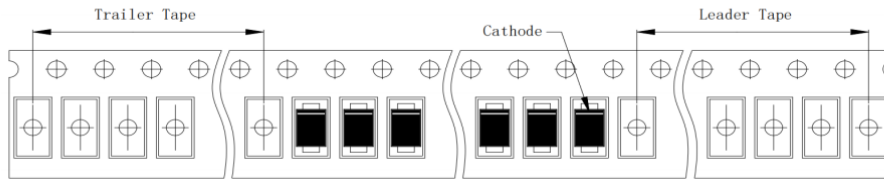


# SSCSSS3XD1

## Carrier Dimension(mm)



<b>A0</b>	<b>B0</b>	<b>K0</b>	<b>D0</b>	<b>E</b>	<b>F</b>
2.15	3.95	1.35	1.55	1.75	3.50
<b>P0</b>	<b>P1</b>	<b>P2</b>	<b>T</b>	<b>W</b>	<b>Tolerance</b>
4.0	4.0	2.0	0.25	8	0.1



## Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
SOD123FL	7'	178	3	180	15	380*200*200	150



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