



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

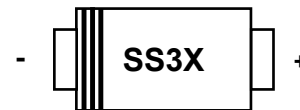
● PIN configuration



SOD-123FL



Circuit Diagram



Marking

(SS34:SSCSSS34D1 Marking Code)

● Applications

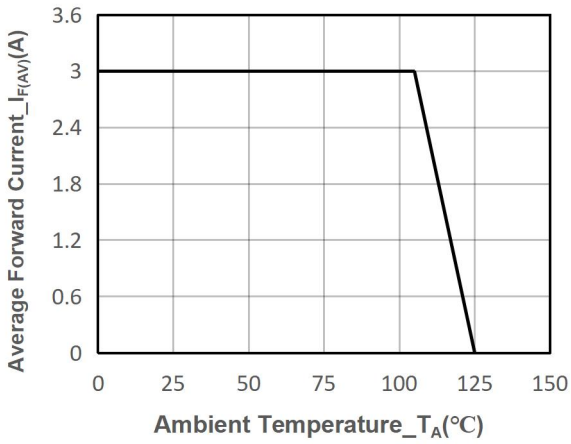
- ✧ Low Voltage
- ✧ High-Frequency Inverters
- ✧ Free Wheeling
- ✧ Polarity Protection

● Absolute maximum rating @T_A=25°C

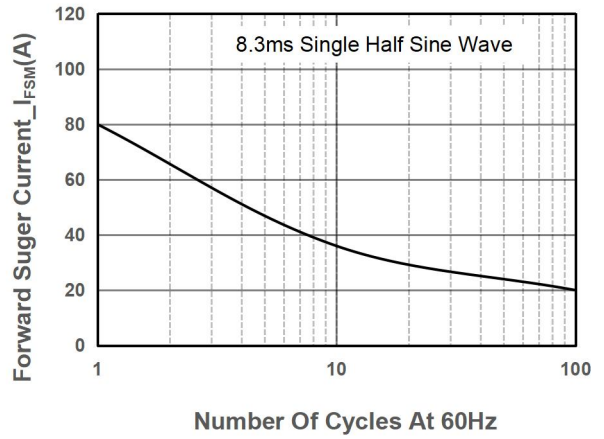
Parameter	Symbol	SS32D1	SS34D1	SS36D1	SS310D1	SS315D1	SS320D1	Unit
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	80						A
Max Instantaneous Forward Voltage at 3 A	V _F	0.6	0.6	0.75	0.85	0.95	0.95	V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	500						μA
		20						mA
Operating Temperature	T _J	-55 ~ +125						°C
Storage Temperature	T _{STG}	-55 ~ +150						°C



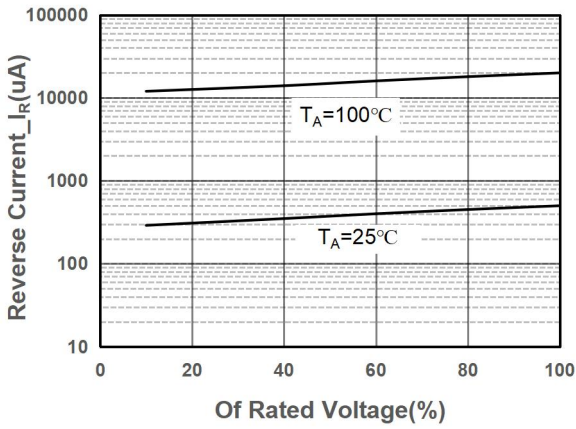
● Typical Performance Characteristics



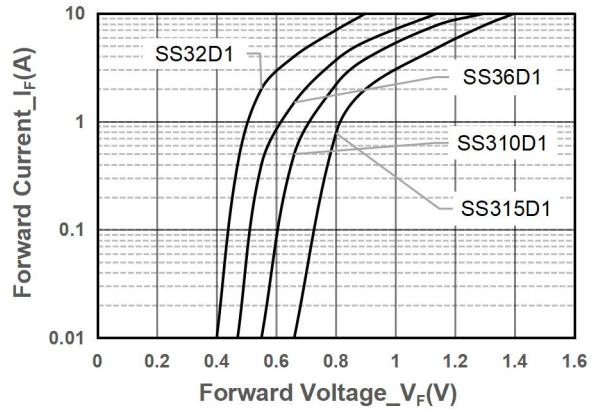
I_o -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



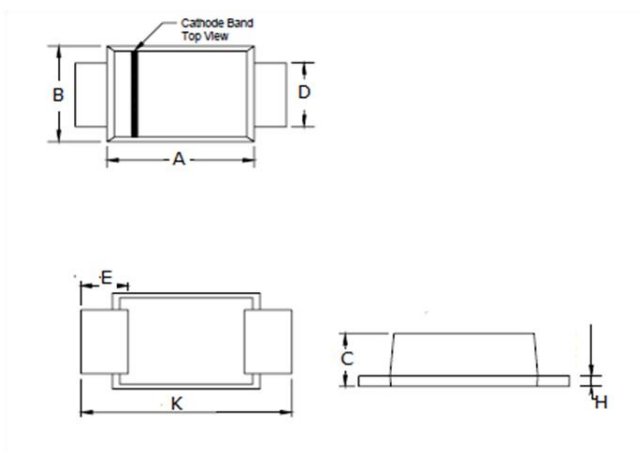
● Package Information

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

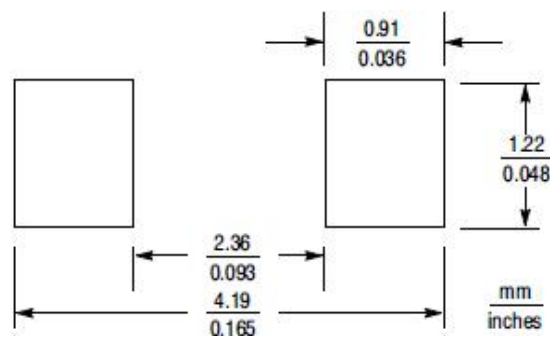
Case: SOD-123FL

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





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