



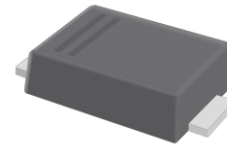
SSC SSS32D1 THRU SSC SSS320D1

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:SSC SSS34D1 Marking Code)

● Applications

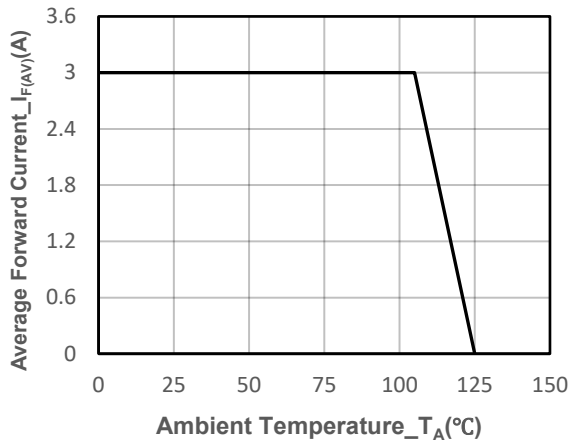
- ✧ Low Voltage
- ✧ High-Frequency Inverters
- ✧ Free Wheeling
- ✧ Polarity Protection

● Absolute maximum rating @T_A=25°C

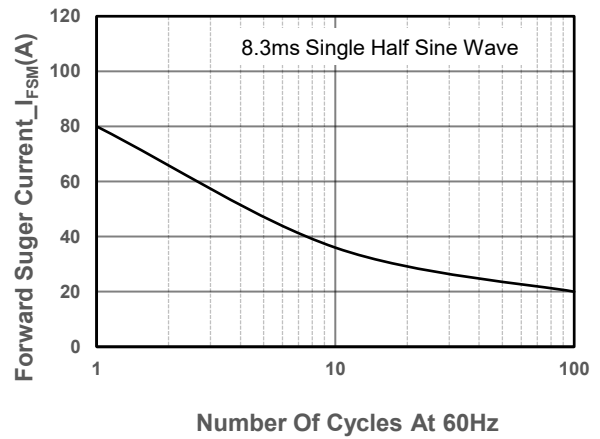
Parameter	Symbol	SS32D1	SS34D1	SS36D1	SS38D1	SS310D1	SS315D1	SS320D1	Unit
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0							A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	70.0							A
Max Instantaneous Forward Voltage at 3 A	V _F	0.55	0.55	0.70	0.85	0.85	0.95	0.95	V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	0.5 50				0.05 10			mA
Typical thermal resistance	RqJA	85.0							°C/W
Operating Temperature	T _J	-55 ~ +125				-55 ~ +150			°C
Storage Temperature	T _{STG}	-55 ~ +150							°C



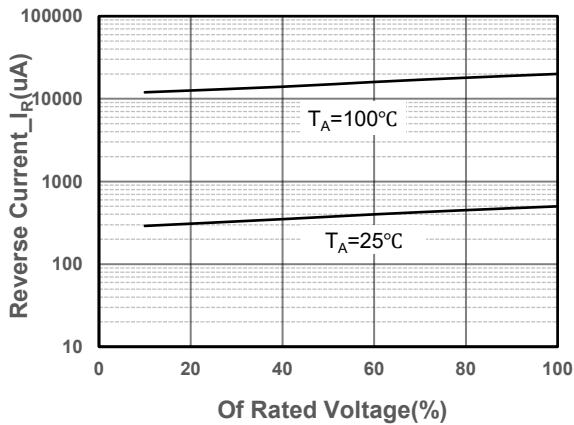
● Typical Performance Characteristics



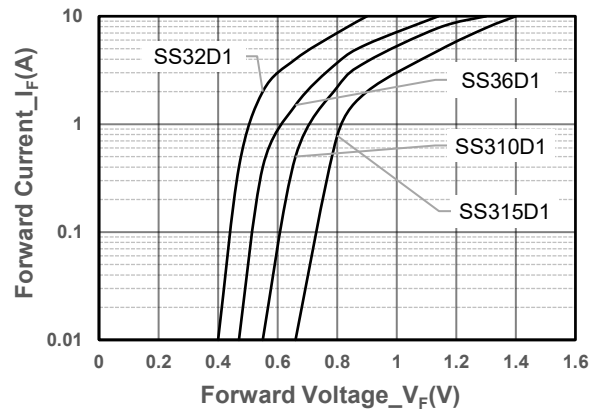
I_o -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



● Package Information

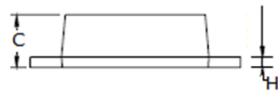
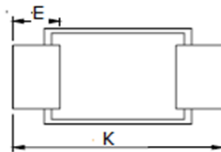
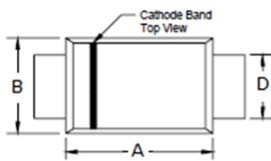
Ordering Information

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

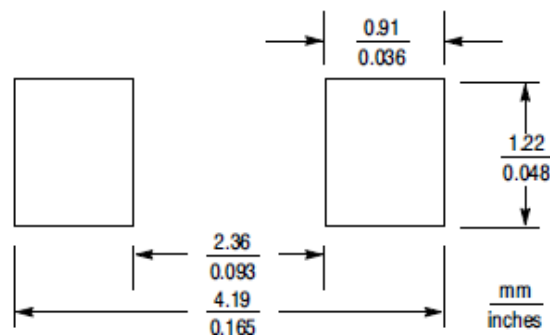
Case: SOD-123FL

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

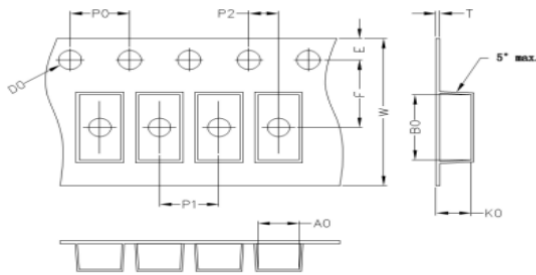
Recommended Pad outline



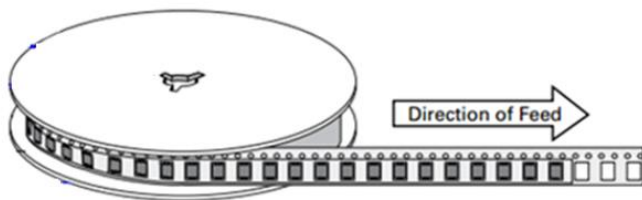
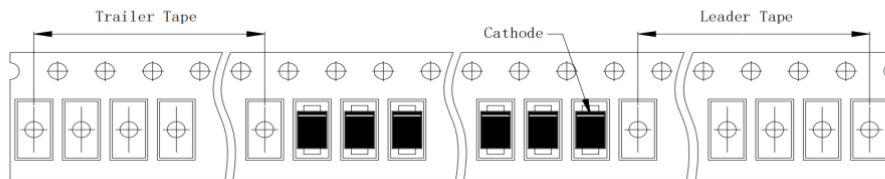


SSC SSS3XD1

Carrier Dimension(mm)



A0	B0	K0	D0	E	F
2.15	3.95	1.35	1.55	1.75	3.50
P0	P1	P2	T	W	Tolerance
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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