



SSCSDS22D1 THRU SSCSDS220D1

Schottky Barrier Diode

● Features

- ✧ Reverse Voltage - 20 to 200 V
- ✧ Forward Current - 2.0A
- ✧ Metal silicon junction, majority carrier conduction
- ✧ For surface mounted applications
- ✧ Low power loss, high efficiency
- ✧ High forward surge current capability
- ✧ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

● PIN configuration



SOD-123FL



Circuit Diagram

● Applications

- ✧ Low Voltage Rectification
- ✧ High-Efficiency DC-DC Conversion
- ✧ Switch Mode Power Supply
- ✧ Inverse Polarity Protection



Marking

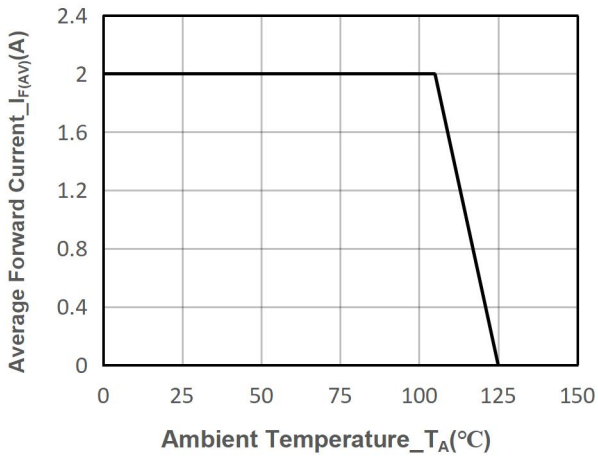
(SS24:SSCSDS24D1 Marking Code)

● Absolute maximum rating @T_A=25°C

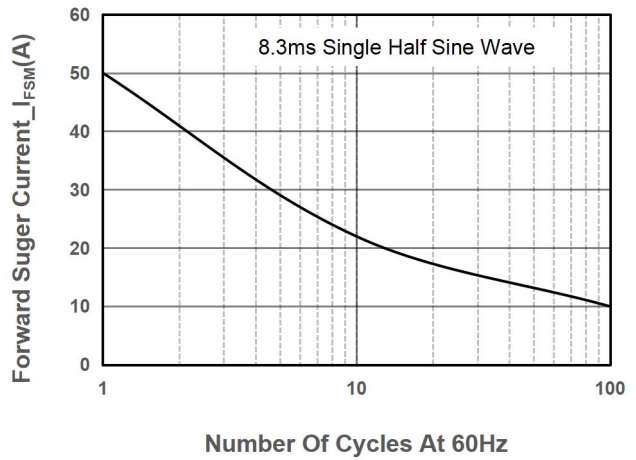
Parameter	Symbol	DS22D1	DS24D1	DS26D1	DS210D1	DS215D1	DS220D1	Unit
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	50						A
Max Instantaneous Forward Voltage at 2 A	V _F	0.6	0.6	0.75	0.85	0.95	0.95	V
Maximum DC Reverse Current T _a = 25 °C	I _R	500						μA
at Rated DC Blocking Voltage T _a = 125 °C		20						mA
Operating Temperature	T _J	-55 ~ +125						°C
Storage Temperature	T _{STG}	-55 ~ +150						°C



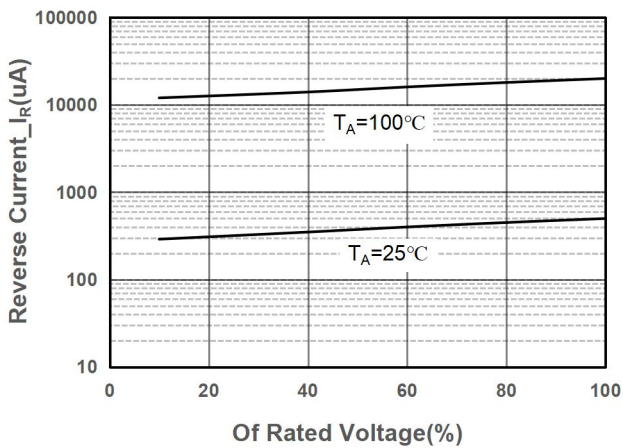
● Typical Performance Characteristics



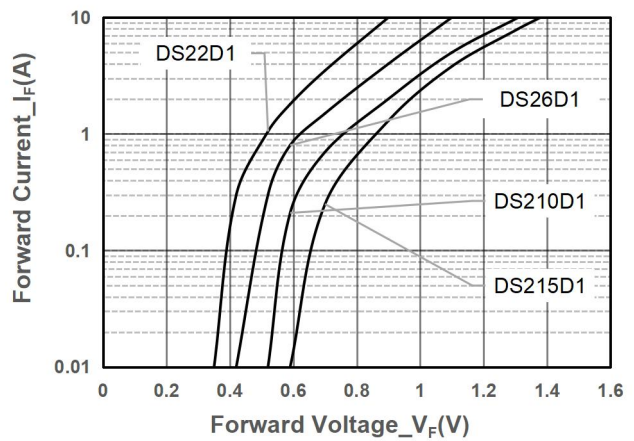
I_o -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



● Package Information

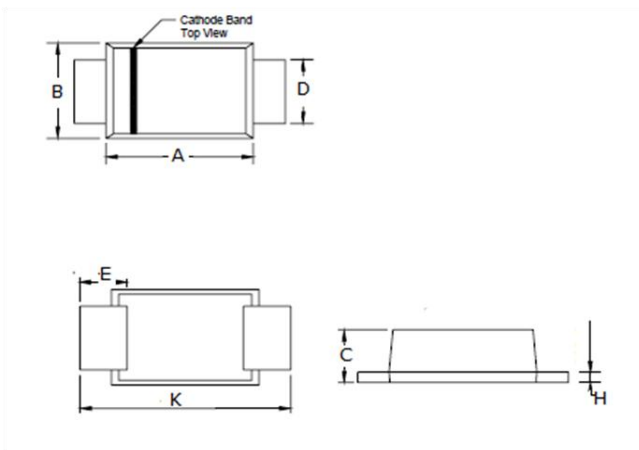
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSDS22D1	SOD-123FL	SS22	3000	7 Inch
SSCSDS24D1	SOD-123FL	SS24	3000	7 Inch
SSCSDS26D1	SOD-123FL	SS26	3000	7 Inch
SSCSDS210D1	SOD-123FL	SS210	3000	7 Inch
SSCSDS215D1	SOD-123FL	SS215	3000	7 Inch
SSCSDS220D1	SOD-123FL	SS220	3000	7 Inch

Mechanical Data

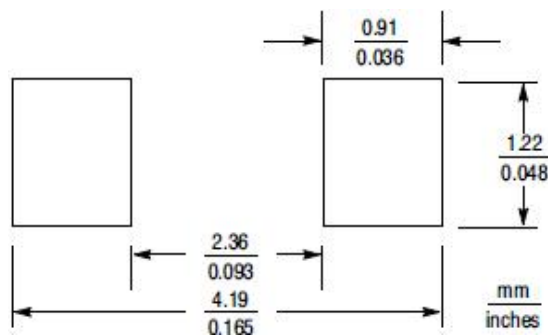
Case: SOD-123FL

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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