

# SSCSDS2XD1

## 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** 



**Circuit Diagram** 

### • Applications

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



(SS24:SSCSDS24D1 Marking Code)

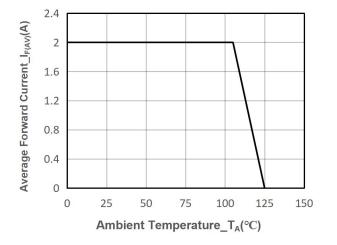
### ● Absolute maximum rating @T<sub>A</sub>=25℃

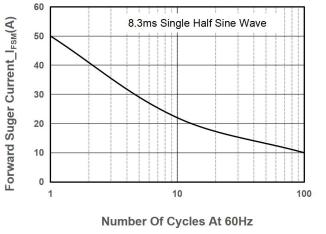
Parameter	Symbol	DS22D1	DS24D1	DS26D1	DS210D1	DS215D1	DS220D1	Unit
Maximum Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	100	150	200	V
Maximum RMS Voltage	VRMS	14	28	42	70	105	140	v
Maximum DC Blocking Voltage	VDC	20	40	60	100	150	200	v
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2.0					А	
Non-repetitive Peak Forward Surge Current	IFSM 50					A		
@t=8.3ms								
Max Instantaneous Forward Voltage at 2 A	V <sub>F</sub>	0.6	0.6	0.75	0.85	0.95	0.95	V
Maximum DC Reverse Current Ta = 25 $^\circ\!\!\mathbb{C}$	500				μA			
at Rated DC Blocking Voltage Ta =125 ${}^\circ\!\mathrm{C}$	l <sub>R</sub> 20						mA	
Operating Temperature	TJ	-55 ~ +125				°C		
Storage Temperature	T <sub>STG</sub>	-55 ~ +150				°C		



# SSCSDS2XD1

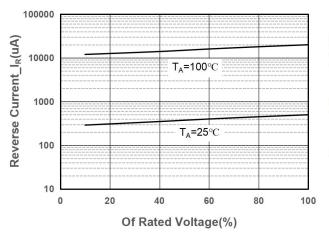
## Typical Performance Characteristics



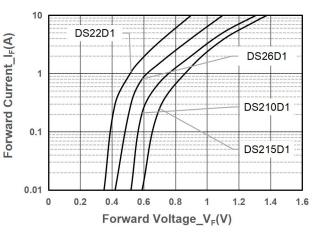








Typical Reverse Characteristics



Forward Voltage vs. Forward Current



### Package Information

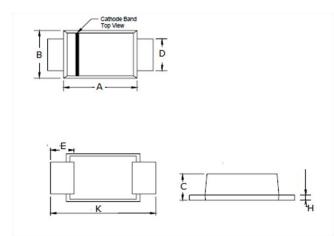
#### **Ordering Information**

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**

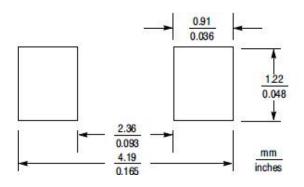
Case: SOD-123FL

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters				
Diiii	Min	Max			
Α	2.50	2.90			
В	1.50	1.90			
С	0.095	1.20			
D	0.70	1.20			
E	0.35	0.85			
н	0	0.1			
K	3.40	3.90			

#### **Recommended Pad outline**





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