

SSCS551V30D2

SSCS551V30D2

Applications

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Schottky Barrier Diode

Features •

Low Forward Voltage Drop (VF) ∻

Low Voltage Rectification

♦ Switch Mode Power Supply Inverse Polarity Protection

♦ High-Efficiency DC-DC Conversion

- Better Efficiency and Cooler Operation ∻
- ∻ Guard Ring Construction for Transient Protection

PIN configuration

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SOD-323



Circuit Diagram

- A



Absolute maximum rating @T_A=25℃ •

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	30	V
DC Reverse Voltage	V _R	21	V
Average Rectified Output Current	lo	0.5	А
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2	А
Power Dissipation	PD	250	mW
Typical thermal resistance	R _{θJA}	400	°C/W
Operating Temperature	TJ	-40 ~ +125	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

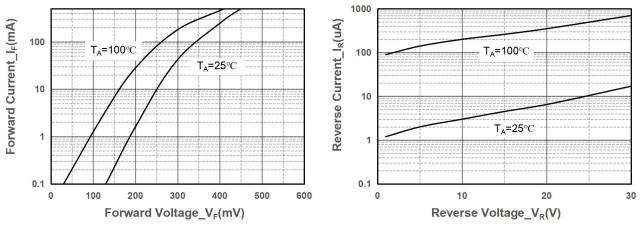
Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage V _F	I _F = 100mA			0.36	V	
	I _F = 500mA			0.54		
Reverse Current	I _R	V _R = 20V			100	μA

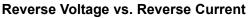


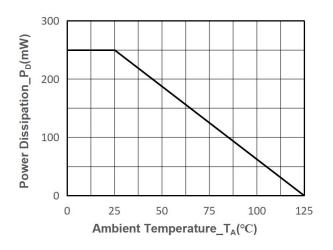
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Typical Performance Characteristics

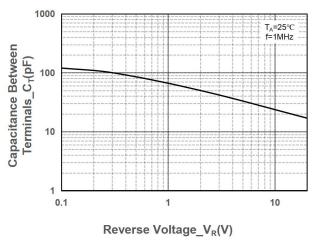


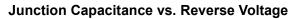
Forward Voltage vs. Forward Current





Power Derating vs. Ambient Temperature







Package Information

SSCS551V30D2

Ordering Information

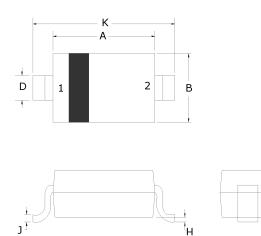
Device	Package	Marking	Qty per Reel	Reel Size
SSCS551V30D2	SOD-323	D	3000	7 Inch

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Mechanical Data

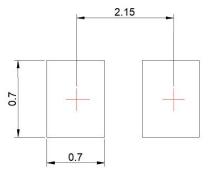
Case: SOD-323

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters		
JIM	Min	Мах	
Α	1.60	1.80	
В	1.2	1.40	
С	0.80	0.90	
D	0.25	0.35	
E	0.15REF		
н	0	0.10	
J	0.08	0.15	
к	2.50	2.70	

Recommended Pad outline (Unit:mm)





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