

SSCS0530D2

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Schottky Barrier Diode

Features •

Low Forward Voltage Drop ∻

Low Voltage Rectification

♦ Switch Mode Power Supply Inverse Polarity Protection

High-Efficiency DC-DC Conversion

- Guard Ring Construction for Transient Protection ∻
- High Conductance ∻

Applications

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∻ Also Available in Lead Free Version

PIN configuration

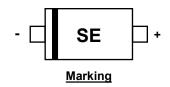
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SOD-323



Circuit Diagram



Absolute maximum rating @T_A=25℃ •

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	VRWM	30	V
DC Blocking Voltage	V _R		
RMS reverse voltage reverse voltage (DC)	V _{R(RMS)}	21	V
Average Rectified Output Current	lo	500	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	5.5	А
Power Dissipation	PD	200	mW
Typical Thermal Resistance	R _{0JA}	500	°C/W
Operating Temperature	TJ	-40 ~ +125	°C
Storage Temperature	T _{STG}	-50 ~ +150	°C
Voltage rate of change	dv/dt	1000	V/µs

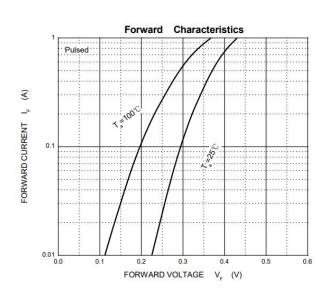


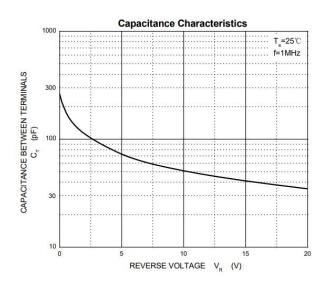
SSCS0530D2

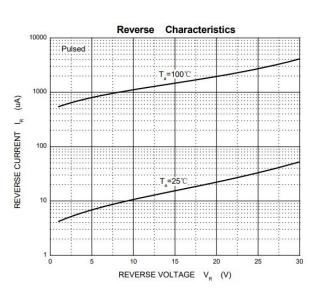
• Electrical Characteristics @T_A=25℃

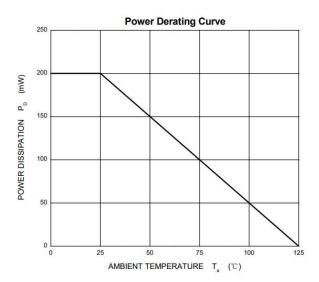
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Voltage	V _R	I _R = 200μΑ	30			V
Forward Voltage	N	I _F = 0.1A			0.375	V
	VF	I _F = 0.5A			0.450	
Reverse Current I _R		V _R = 15V			80	
	IR	V _R = 30V			500	μA
Junction Capacitance	CJ	V_R = 1V, f = 1MHz		170		pF

• Typical Performance Characteristics











Package Information

SSCS0530D2

Ordering Information

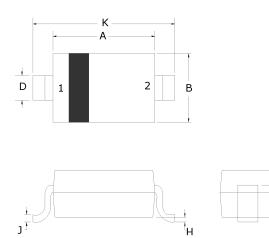
Device	Package	Marking	Qty per Reel	Reel Size
SSCS0530D2	SOD-323	SE	3000	7 Inch

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Mechanical Data

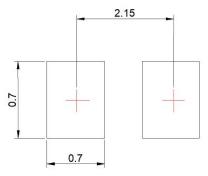
Case: SOD-323

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters		
	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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