



SSCS5819D2

Schottky Barrier Diode

● Features

- ✧ Low Forward Voltage Drop (VF)
- ✧ Better Efficiency and Cooler Operation
- ✧ Guard Ring Construction for Transient Protection

● PIN configuration



SOD-323

● Applications

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



Circuit Diagram



Marking(Top View)

● Absolute maximum rating @T_A=25°C

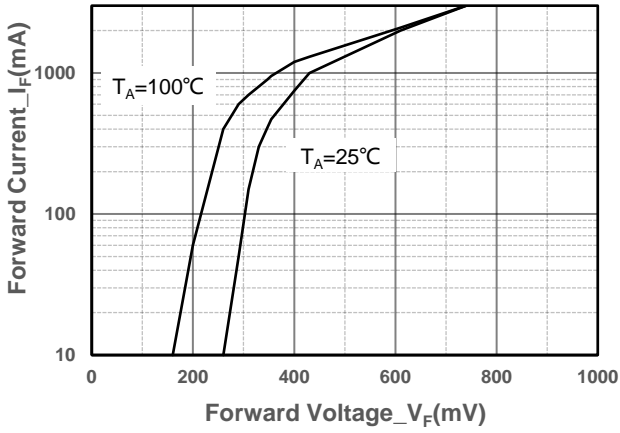
Parameter	Symbol	Value	Unit
Non-repetitive Peak Reverse Voltage	V _{RM}	40	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Average Rectified Output Current	I _O	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	9	A
Power Dissipation	P _D	250	mW
Operating Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

● Electrical Characteristics @T_A=25°C

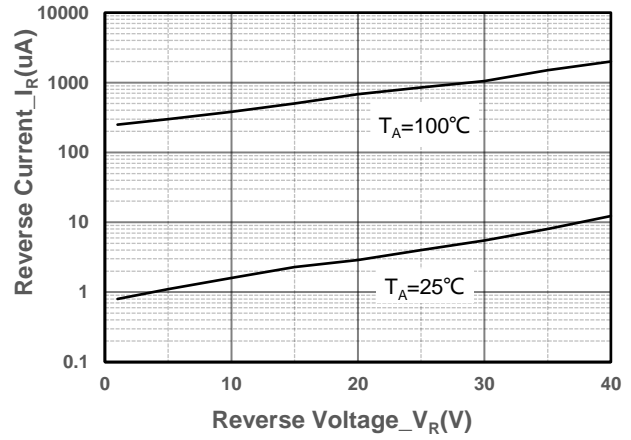
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 1mA	40			V
Forward Voltage	V _F	I _F = 1A			0.6	V
		I _F = 3A			0.9	
Reverse Current	I _R	V _R = 40V			1	mA
Junction Capacitance	C _J	V _R =4V,f=1MHz			120	pF



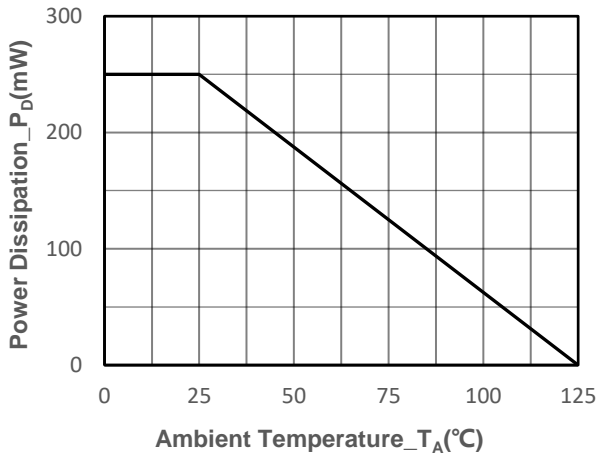
- Typical Performance Characteristics



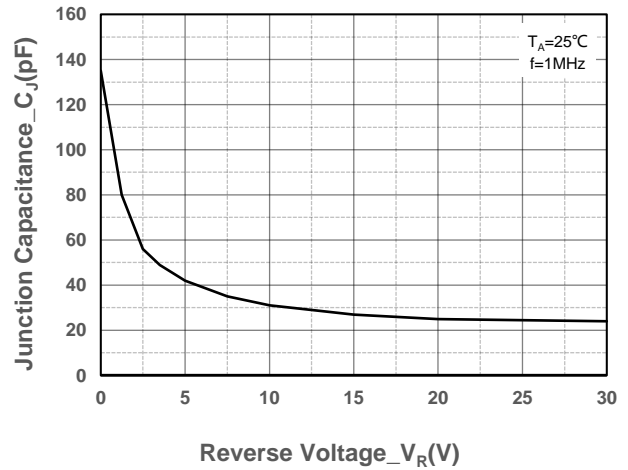
Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



Power Derating vs. Ambient Temperature



Junction Capacitance vs. Reverse Voltage



● Package Information

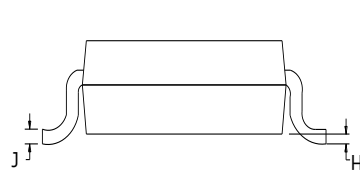
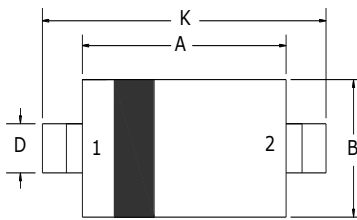
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS5819D2	SOD-323	SL	3000	7 Inch

Mechanical Data

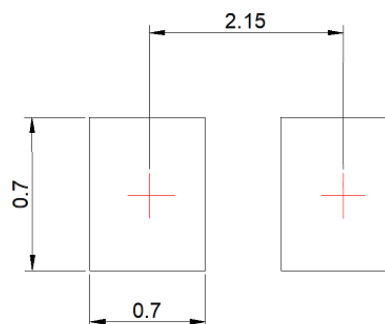
Case: SOD-323

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters	
	Min	Max
A	1.60	1.80
B	1.2	1.40
C	0.80	0.90
D	0.25	0.35
E	0.15REF	
H	0	0.10
J	0.08	0.15
K	2.50	2.70

Recommended Pad outline (Unit:mm)





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