



SSCS0520D2

Schottky Barrier Diode

● Features

- ✧ Low Forward Voltage Drop
- ✧ Guard Ring Construction for Transient Protection
- ✧ High Conductance
- ✧ Also Available in Lead Free Version

● PIN configuration



SOD-323

● Applications

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



Circuit Diagram



Marking

● Absolute maximum rating @T_A=25°C

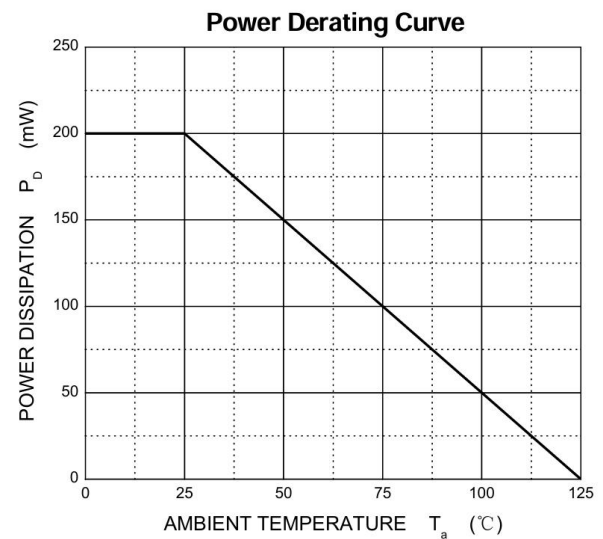
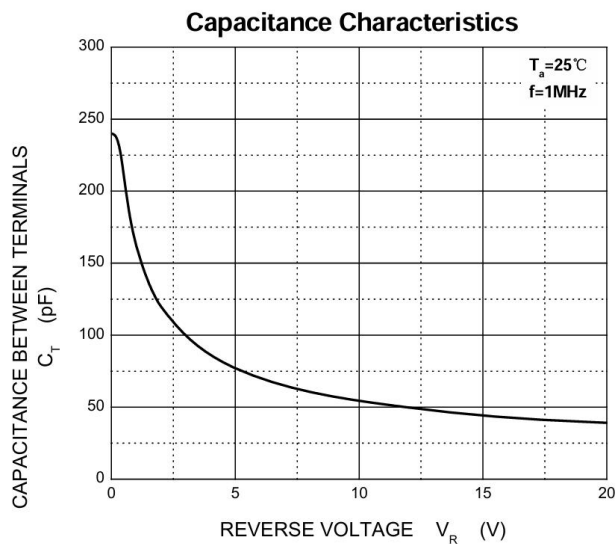
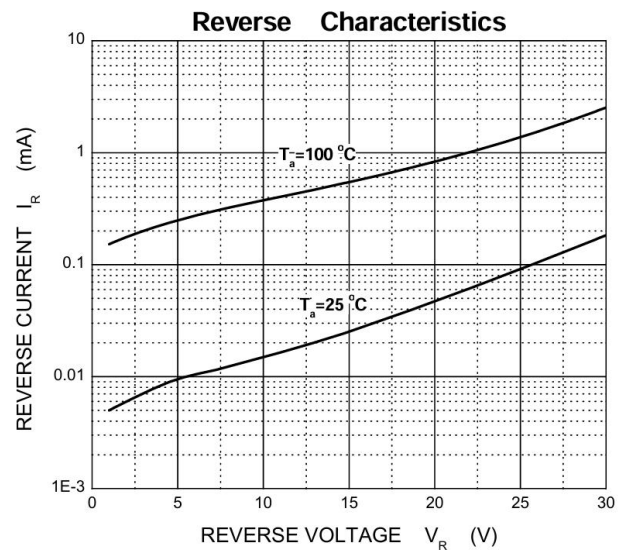
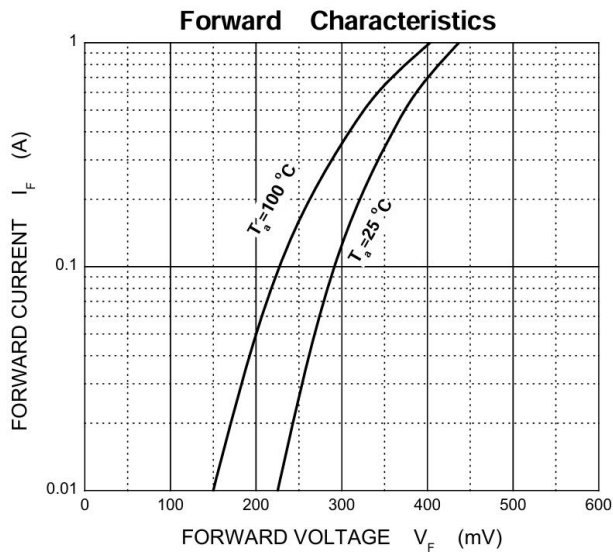
Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	20	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS reverse voltage reverse voltage (DC)	V _{RMS}	14	V
Average Rectified Output Current	I _O	0.5	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	5.5	A
Power Dissipation	P _D	200	mW
Typical Thermal Resistance	R _{θJA}	500	°C/W
Operating Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-50 ~ +150	°C
Voltage rate of change	dv/dt	1000	V/μs



● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 250μA	20			V
Forward Voltage	V _F	I _F = 0.1A			0.33	V
		I _F = 0.5A			0.39	
Reverse Current	I _R	V _R = 10V			75	uA
		V _R = 20V			250	
Junction Capacitance	C _J	V _R = 0V, f = 1MHz		170		pF

● Typical Performance Characteristics





● Package Information

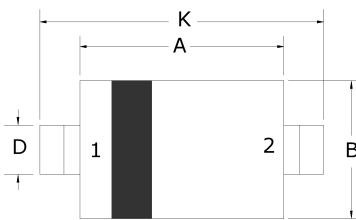
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS0520D2	SOD-323	SD	3000	7 Inch

Mechanical Data

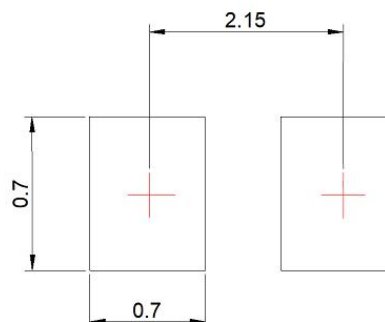
Case: SOD-323

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters	
	Min	Max
A	1.60	1.80
B	1.20	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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