



SSCS160M30D1

Schottky Barrier Diode

● Features

- ✧ Low Forward Voltage Drop (VF)
- ✧ Better Efficiency and Low Power Losses,
- ✧ Guard Ring Construction for Transient Protection

● PIN configuration



SOD-123

● 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

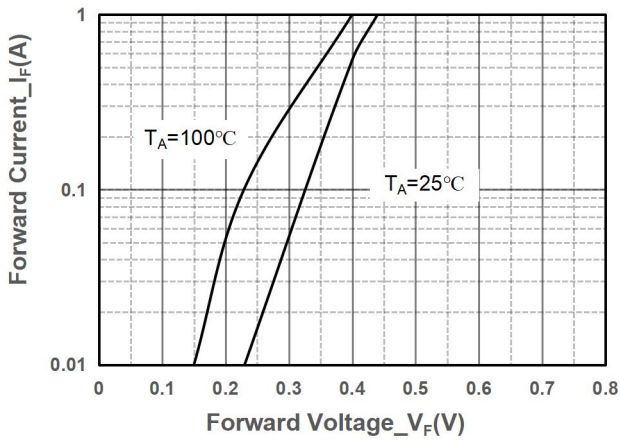
Parameter	Symbol	Value	Unit
Reverse Voltage (Repetitive Peak)	V _{RRM}	30	V
DC Reverse Voltage	V _R		
Reverse Voltage	V _{R(RMS)}	24	V
Average Rectified Output Current	I _o	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	15	A
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient(Typ)	R _{θJA}	170	°C/W
Operating Temperature	T _J	-55 ~ +125	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

● Electrical Characteristics @T_A=25°C

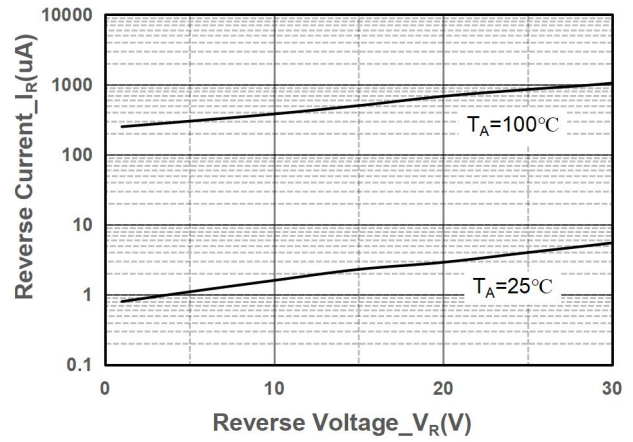
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V _{BR}	I _R = 250uA	30			V
Forward Voltage	V _F	I _F = 0.5A		0.38	0.45	V
		I _F = 1A		0.43	0.48	
Reverse Leakage Current	I _R	V _R = 15V		2	20	uA
		V _R = 30V		5	50	uA
Junction Capacitance	C _J	V _R =4V,f=1MHz		50		pF



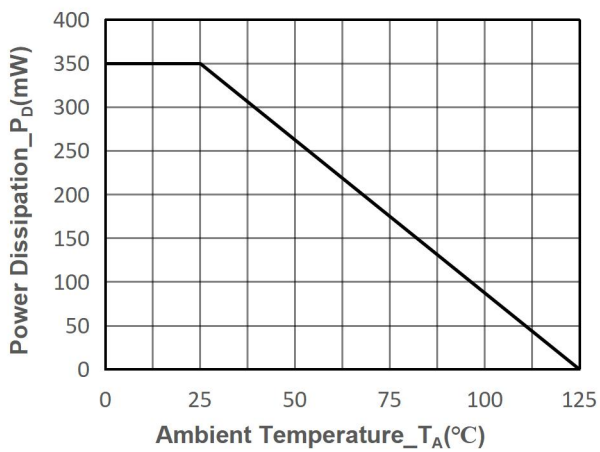
- Typical Performance Characteristics



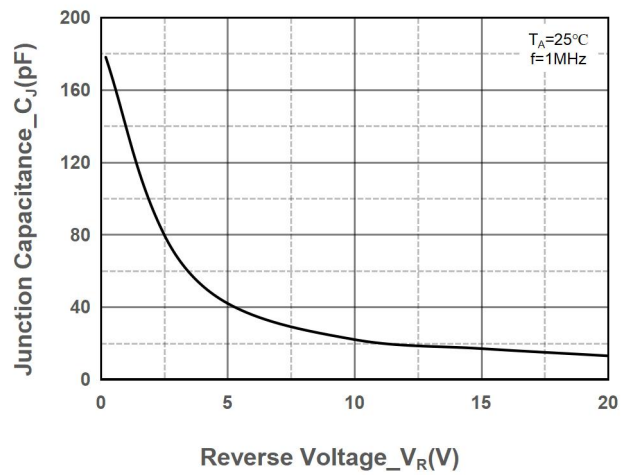
Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



Power Derating vs. Ambient Temperature



Junction Capacitance vs. Reverse Voltage



● Package Information

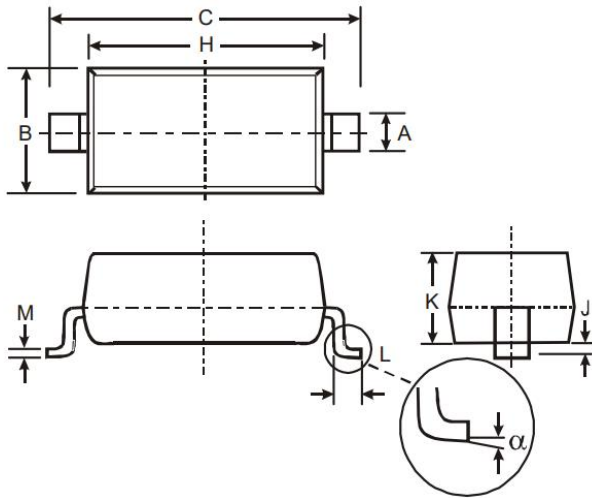
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS160M30D1	SOD-123	73	3000	7 Inch

Mechanical Data

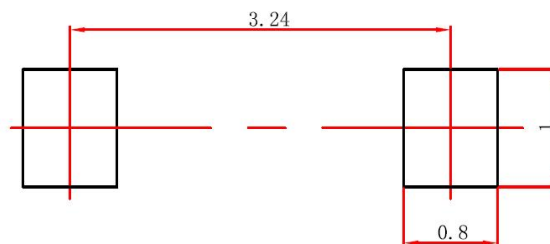
Case: SOD-123

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters	
	Min	Max
A	0.45	0.65
B	1.50	1.70
C	3.55	3.85
H	2.6	2.8
J	0.00	0.10
K	1.05	1.15
L	0.25	0.45
M	0.08	0.15
α	0	8°

Recommended Pad outline (Unit:mm)





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