

B5819WSL SCHOTTKY BARRIER DIODE



Features

- Low Forward Voltage Schottky Rectifier
- SOD323F Thin SMD package
- RoHS compliant / Green EMC
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Schematic & Pin Configuration



Mechanical Characteristics

- Case: SOD-323F, Molded plastic
- Matte Tin (Sn) Lead finish
- Polarity: Cathode Band
- Weight: 0.004 grams(approx)
- Marking code: SA

Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non- Repetitive Peak Reverse Voltage	V_{RM}	40	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Output Current	I_O	1	A
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	9	A
Power Dissipation	P_D	250	mW
Junction Temperature Range	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^{\circ}\text{C}$

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Units	Test Condition
Breakdown Voltage	V _{BR}	40	-	V	@I _R =1mA
Forward Voltage*	V _{FM}	-	0.6 0.9	V	@I _F =1A @I _F =3A
Reverse Leakage Current*	I _{RM}	-	50	uA	@V _R =40V
Capacitance	C _T	-	120	pF	V _R =4V, f=1.0MHz

* Pulse width < 300 μs, duty cycle < 2%

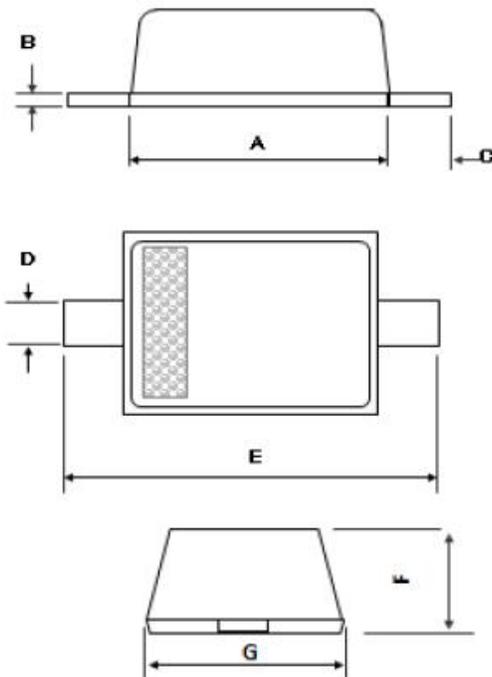
Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch
B5819WSL	SOD-323F	3000pcs / reel	8mm	4mm

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

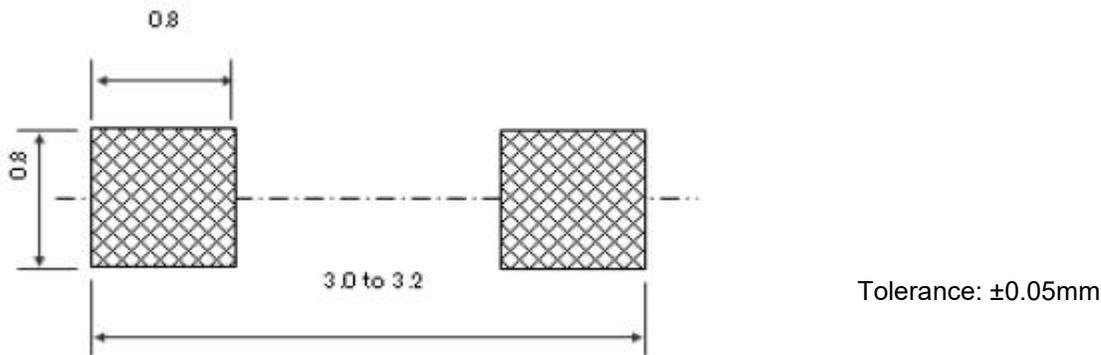
Marking Diagram


SA = Marking Code

Mechanical Dimensions SOD-323F


SYMBOL	Millimeters	
	Min.	Max.
A	1.60	1.80
B	0.06	0.21
C	0.30	0.50
D	0.25	0.40
E	2.30	2.70
F	0.60	0.75
G	1.15	1.35

Land Pattern Recommendation SOD-323F (Millimeters)



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