

## 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<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non- Repetitive Peak Reverse Voltage	V <sub>RM</sub>	40	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	40	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	28	V
Average Rectified Output Current	I <sub>O</sub>	1	A
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	9	A
Power Dissipation	P <sub>D</sub>	250	mW
Junction Temperature Range	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C

**Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified**

Characteristic	Symbol	Min	Max	Units	Test Condition
Breakdown Voltage	V <sub>BR</sub>	40	-	V	@I <sub>R</sub> =1mA
Forward Voltage*	V <sub>FM</sub>	-	0.6 0.9	V	@I <sub>F</sub> =1A @I <sub>F</sub> =3A
Reverse Leakage Current*	I <sub>RM</sub>	-	50	uA	@V <sub>R</sub> =40V
Capacitance	C <sub>T</sub>	-	120	pF	V <sub>R</sub> =4V, f=1.0MHz

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

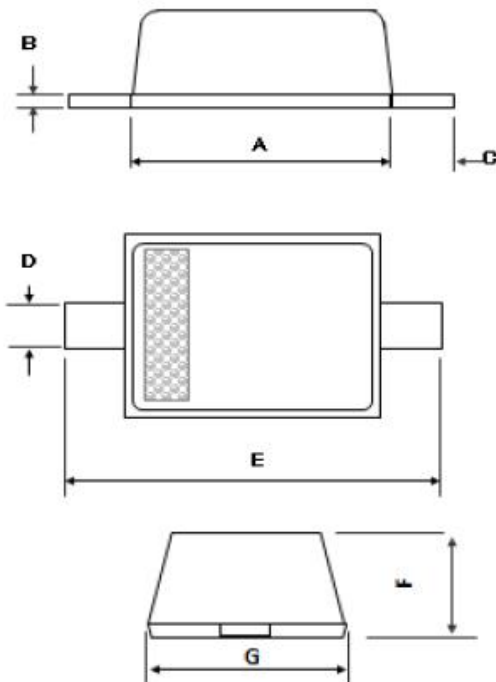
**Ordering Information**

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.

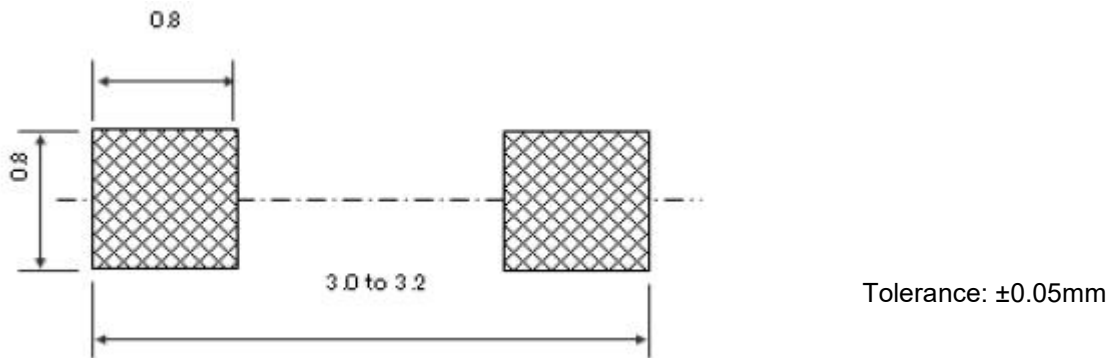
**Marking Diagram**


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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