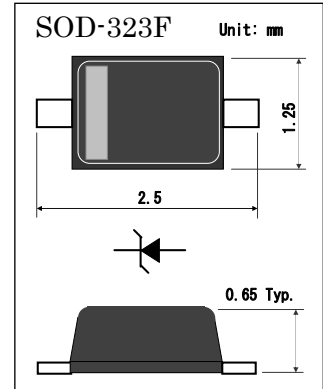


SCHOTTKY BARRIER DIODE / DATA SHEET

B5819WS

- ◇ Low Forward Voltage Schottky Rectifier
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking

Device Marking Code	
B5819WS	SL •



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_O	Average Rectified Output Current	1	A
I_{FSM}	Non-Repetitive Peak Forward Surge Current*1	9	A
I_{FRM}	Repetitive Peak Forward Current	1.5	A
P_D	Power Dissipation	250	mW
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-65 to +150	°C

*1 8.3 ms single half sine-wave

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
V_F	Forward Voltage	$I_F=10mA$			0.31	V
		$I_F=500A$			0.53	V
		$I_F=1A$			0.6	V
V_{BR}	Reverse breakdown voltage	$I_R=1mA$ $I_R=100uA$	40		75	V
I_R	Reverse voltage leakage current	$V_R=40V$		6	20	uA
C_D	Diode capacitance	$VR=4V, f=1MHz$			120	pF

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
B5819WS	SOD323F	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions

