

Features

- Low Forward Voltage Schottky Rectifier.
- High Frequency Inverters.



SOD-323



Equivalent Circuit

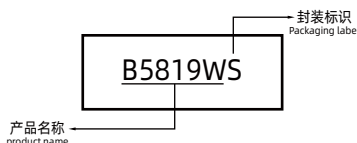
Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{RM}	Non-repetitive Peak Reverse Voltage Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	40	V
V_{RRM}			
V_{RWM}			
V_R			
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_O	Average Rectified Output Current	1	A
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	9	A
I_{FRM}	Repetitive Peak Forward Current	1.5	A
P_d	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	400	$^{\circ}\text{C}/\text{W}$
T_J	Operation Junction Temperature Range	-40~+125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=1\text{mA}$	40			V
I_R	Reverse voltage leakage current	$V_R=40\text{V}$			1	mA
$V_{F(1)}$	Forward voltage(1)	$I_F=1\text{A}$			0.5	V
$V_{F(2)}$	Forward voltage(2)	$I_F=3\text{A}$			0.9	V
C_D	Diode capacitance	$V_R=4\text{V}, f=1.0\text{MHz}$			120	pF

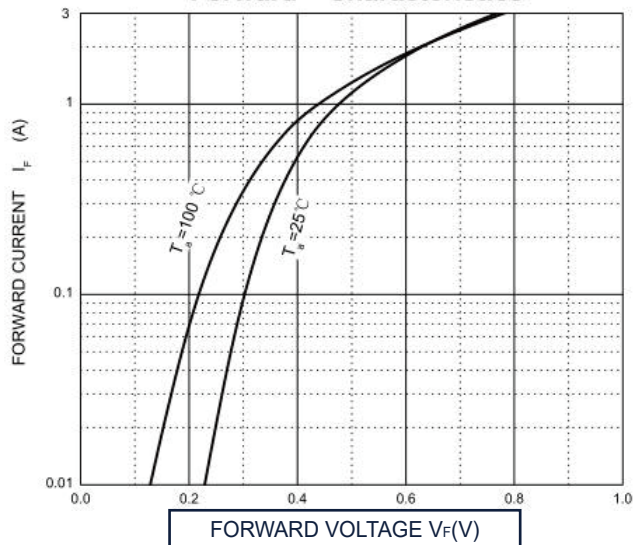
Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
B5819WS	SOD-323		SL	3000

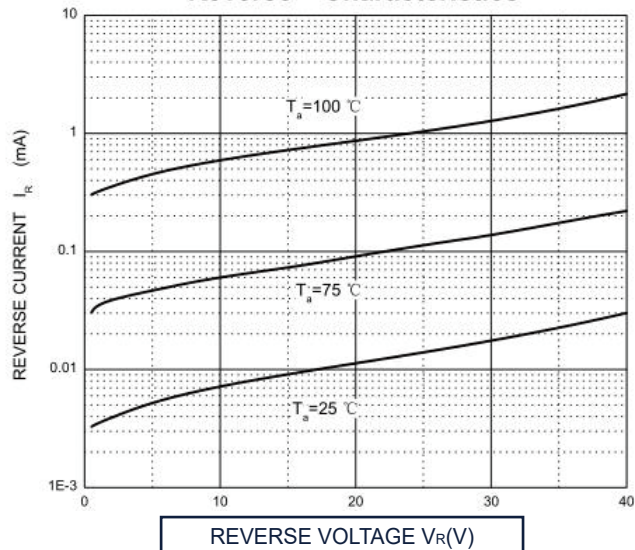


Typical Characteristics

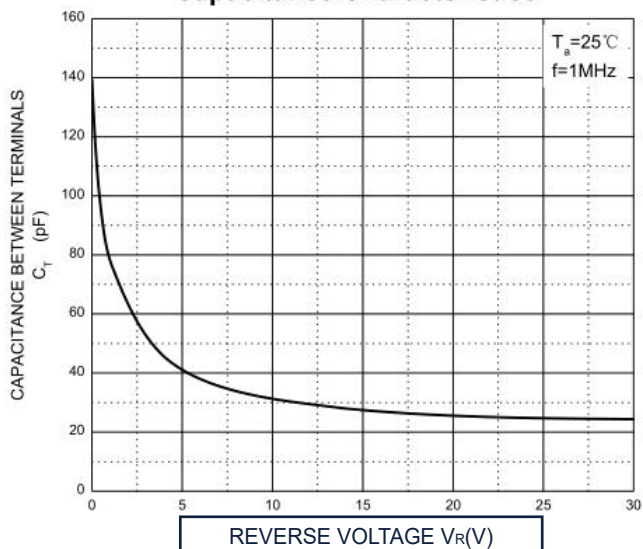
Forward Characteristics



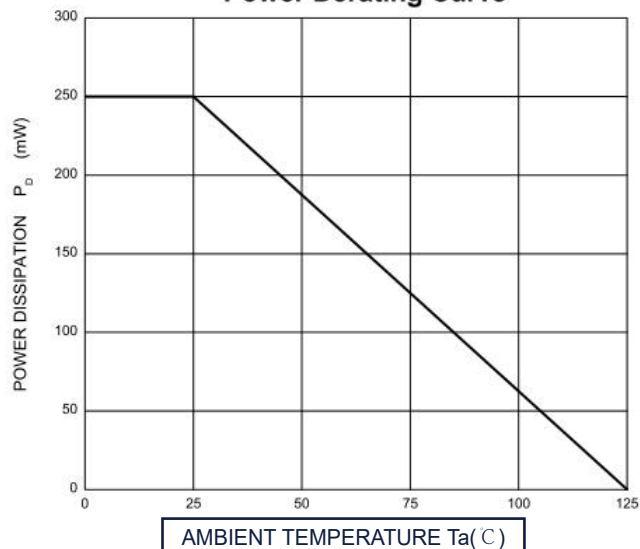
Reverse Characteristics



Capacitance Characteristics



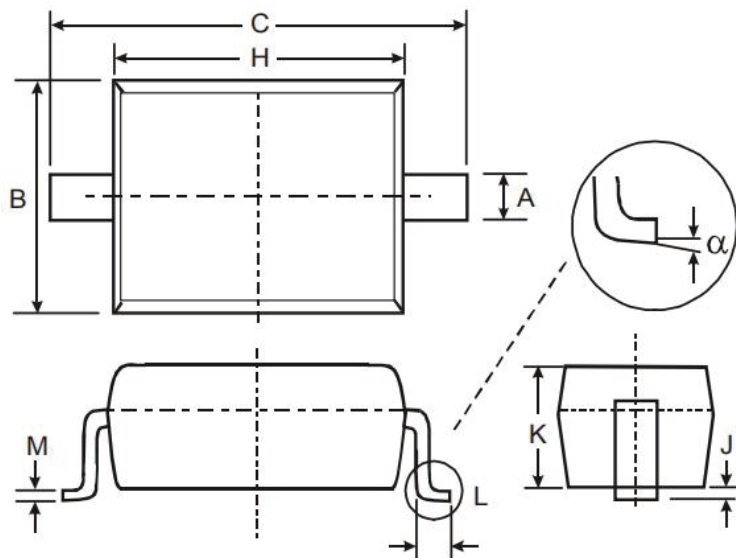
Power Derating Curve





Package Outline Dimensions

SOD323



SYMBOL	MILLIMETERS	
	MIN	MAX
A	0.25	0.35
B	1.20	1.40
C	2.40	2.70
H	1.60	1.80
J	0.01	0.15
K	0.80	1.00
L	0.20	0.40
M	0.08	0.15
α	0°	8°

Soldering Footprint (mm)

