



B5817WS-B5819WS

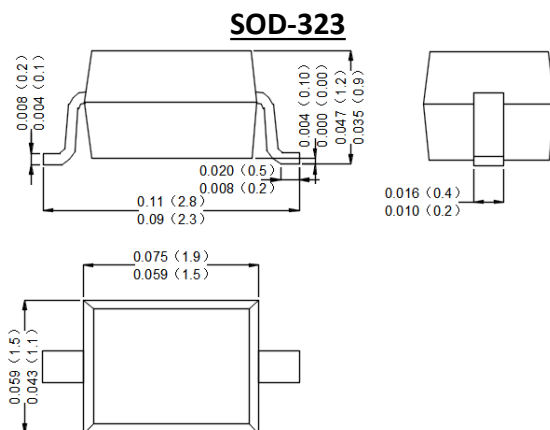
Schottky Barrier Diode

Features

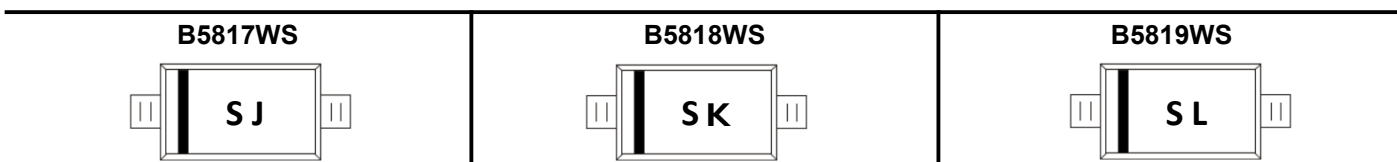
- For use in low voltage.
- High frequency inverters.
- For linear amplification .
- Available in lead free version.

Mechanical Data

- Case:Molded Plastic,SOD-323 .
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:on body.
- Mounting Position : Any.



Dimensions in inches and (millimeters)



Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-repetitive Peak Reverse Voltage	V_{RM}	20	30	40	V
Reverse Voltage	V_R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	
Forward Continuous Current	I_F		1.0		A
Peak Forward Surge Current@ $t_P = 8.3ms$	I_{FSM}		25		A
Repetitive Peak Forward Current	I_{FRM}		1.5		A
Power Dissipation	P_D		200		mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$		625		°C/W
Operating Temperature Range,	T_j		125		°C
Storage Temperature Range	T_{STG}		-55 — +150		°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Conditions	Min	Max	Unit
Reverse Leakage Current	I_R	B5817WS $V_R=20V$		1.0	mA
		B5818WS $V_R=30V$		1.0	mA
		B5819WS $V_R=40V$		1.0	mA
Forward Voltage	V_F	B5817WS $I_F=1A$		0.45	V
			$I_F=3A$		0.75
		B5818WS $I_F=1A$		0.55	V
			$I_F=3A$		0.86
		B5819WS $I_F=1A$		0.60	V
			$I_F=3A$		0.90
Diode Capacitance	C_D	$V_R=1V, f=1MHz$		120	pF



Electrical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise specified

FIG.1 Forward Characteristics

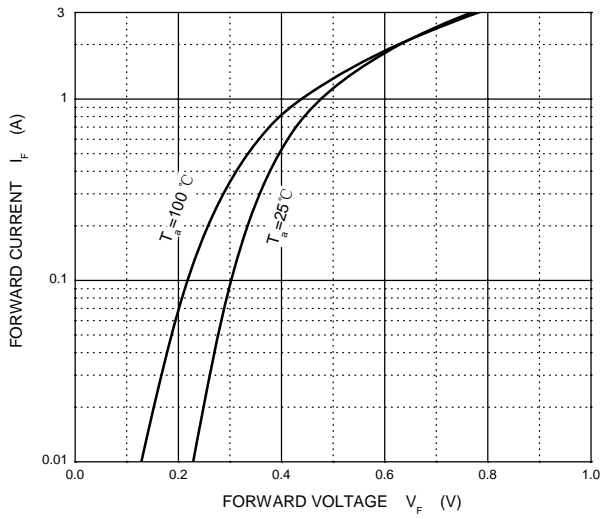


FIG.2 Reverse Characteristics

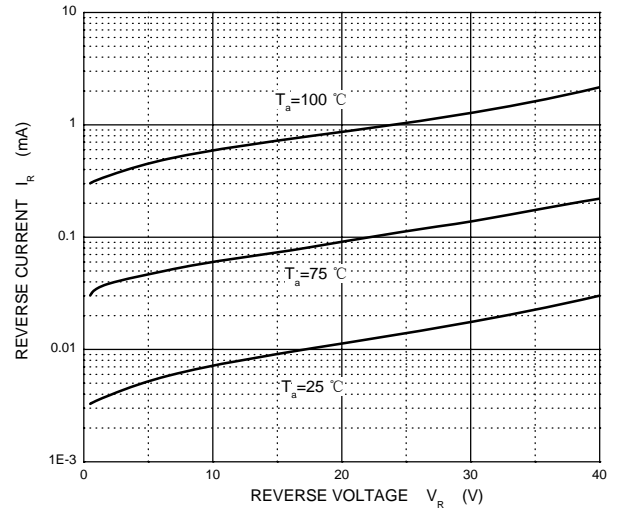


FIG.3 Capacitance Characteristics

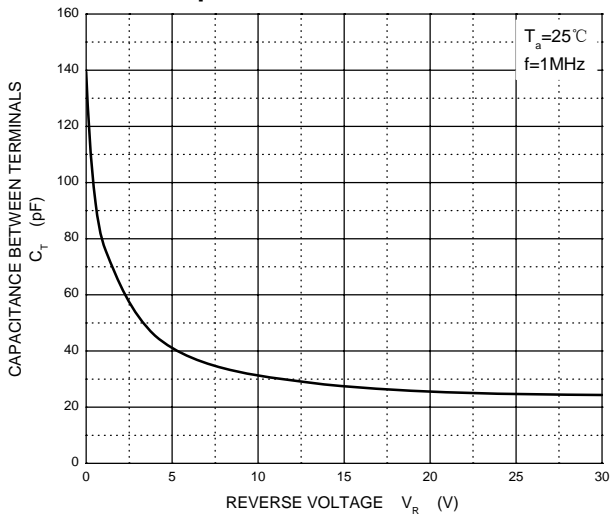
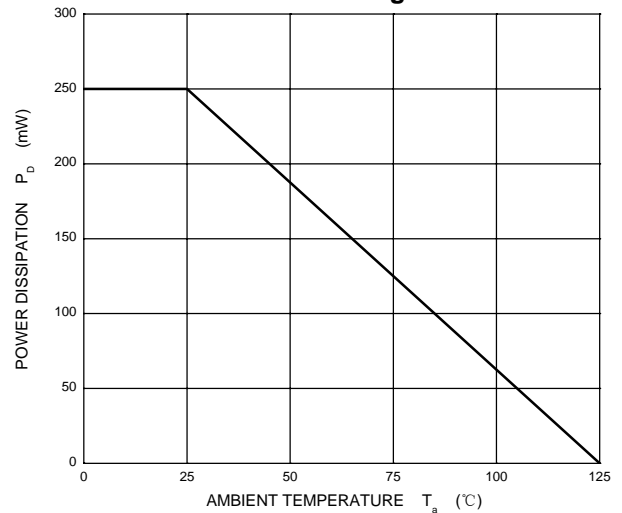


FIG.4 Power Derating Curve





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