



B5817WS-B5819WS

Schottky Barrier Diode

FEATURES

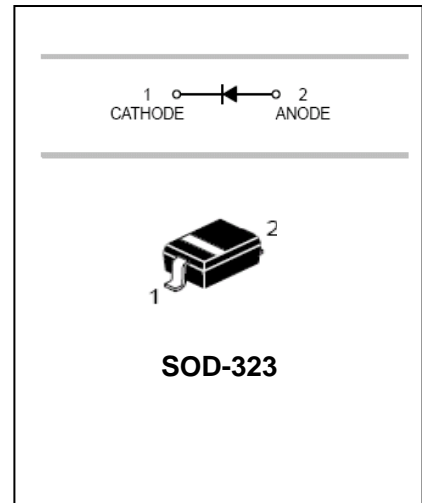
- Extremely low V_F
- Low stored charge, majority carrier conduction
- Low power loss/high efficient



Lead-free

APPLICATIONS

- For Use In Low Voltage, High Frequency Inverters
- Free Wheeling, And Polarity Protection Applications



ORDERING INFORMATION

Type No.	Marking	Package Code
B5817WS	SJ	SOD-323
B5818WS	SK	SOD-323
B5819WS	SL	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	symbol	B5817WS	B5818WS	B5819WS	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	20	30	40	V
Peak repetitive Peak reverse voltage	V_{RRM}	20	30	40	V
Working Peak Reverse voltage	V_{RWM}				
DC Reverse Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified output Current	I_o	1			A
Peak forward surge current@=8.3ms	I_{FSM}	20			A
Power Dissipation	P_d	235			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	426			°C/W
Storage temperature	T_{STG}	-55 to +150			°C

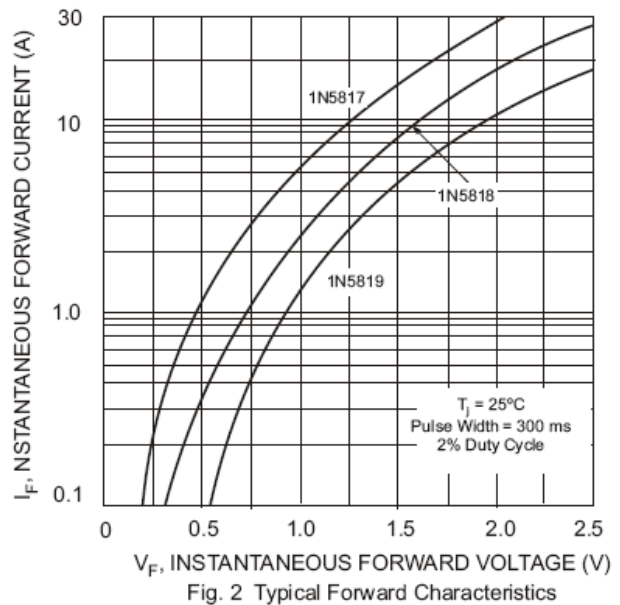
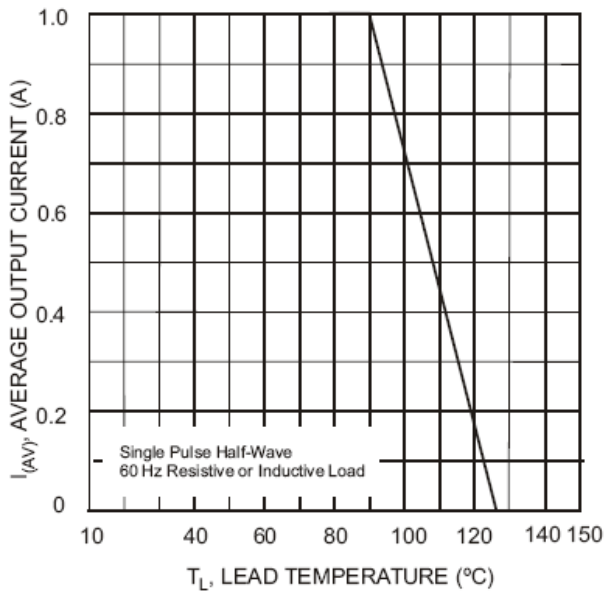


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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test Condition	MIN	MAX	UNIT	
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$				
		B5817WS	20		V	
		B5818WS	30			
Reverse voltage leakage current	I_R	$V_R=20V$				
		$V_R=30V$		1	mA	
		$V_R=40V$				
Forward voltage	V_F	B5817WS	$I_F=1A$		0.45	V
			$I_F=3A$		0.75	
		B5818WS	$I_F=1A$		0.55	
			$I_F=3A$		0.875	
		B5819WS	$I_F=1A$		0.6	
			$I_F=3A$		0.9	
Diode capacitance	C_D	$V_R=4V, f=1MHz$		120	pF	

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





Schottky Barrier Diode

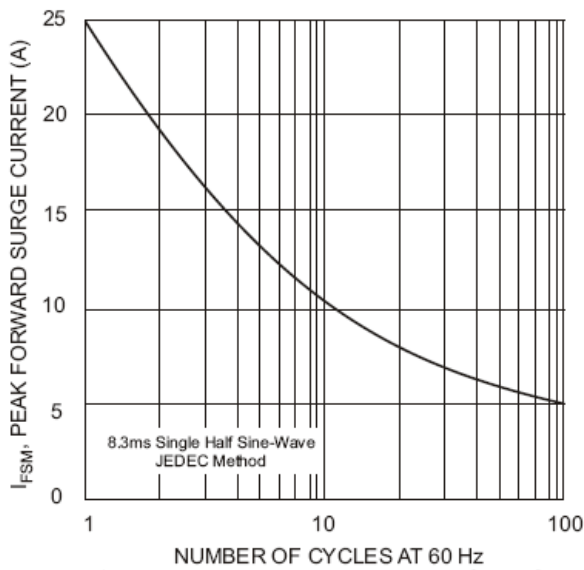


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

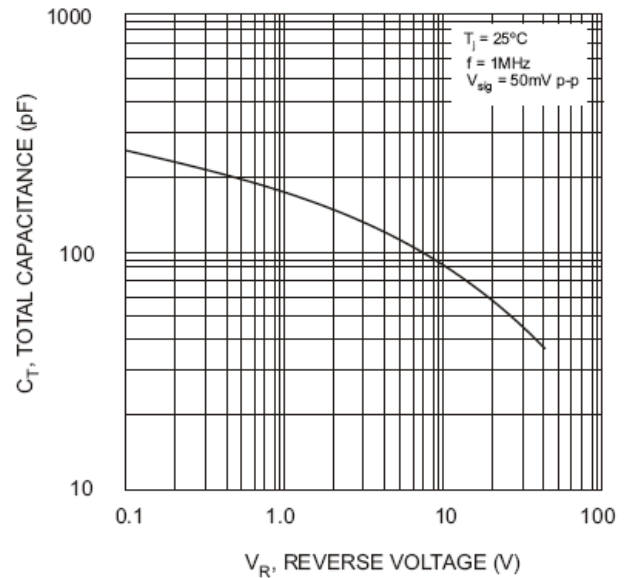


Fig. 4 Typical Total Capacitance

PACKAGE OUTLINE

Plastic surface mounted package

SOD-323

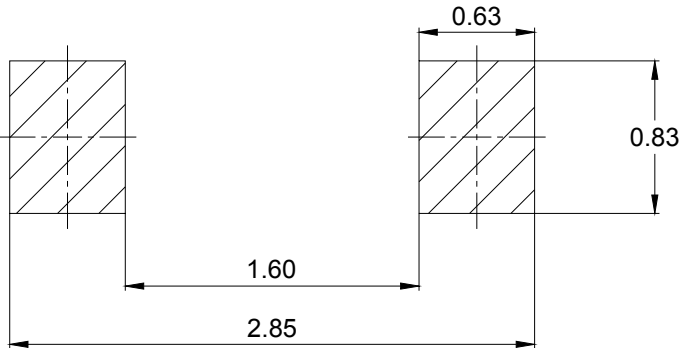
SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.9 Max	
D	0.30 Typical	
E	0.22	0.42
H	0.02	0.1
J	0.1 Typical	
K	2.55	2.75
All Dimensions in mm		



B5817WS-B5819WS

Schottky Barrier Diode

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
B5817WS-B5819WS	SOD-323	3000/Tape&Reel