

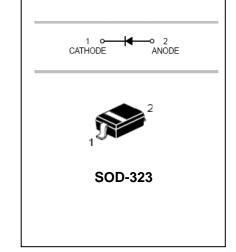
Schottky Barrier Diode

B5817WS-B5819WS

FEATURES

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

Pk) 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 B5819WS	SK SL	SOD-323 SOD-323	

MAXIMUM RATING @ Ta=25℃ 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 Working Peak Reverse voltage DC Reverse Voltage	V _{RRM} V _{RWM} V _R	20	30	40	>
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	٧
Average Rectified output Current	Io	1			А
Peak forward surge current@=8.3ms	I _{FSM}	20		Α	
Power Dissipation	P _d	235			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	426		°C/W	
Storage temperature	T _{STG}	-55 to +150			$^{\circ}$



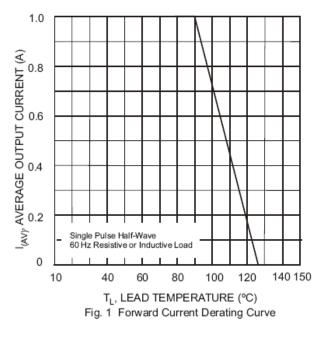
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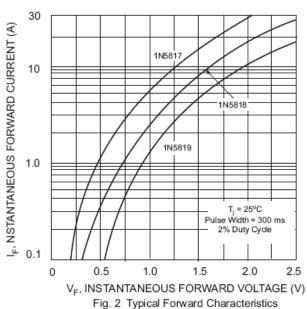
B5817WS-B5819WS

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test Condition		MIN	MAX	UNIT
Reverse breakdown voltage		I _R =1mA				
	V _(BR)		B5817WS	20		V
			B5818WS	30		V
			B5819WS	40		
Reverse voltage leakage current		V _R =20V	B5817WS			
	I _R	V _R =30V	B5818WS		1	mA
		V _R =40V	B5819WS			
Forward voltage		B5817WS	I _F =1A		0.45	
	V _F		I _F =3A		0.75	
		B5818WS	I _F =1A		0.55	V
			I _F =3A		0.875	V
		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℃ unless otherwise specified



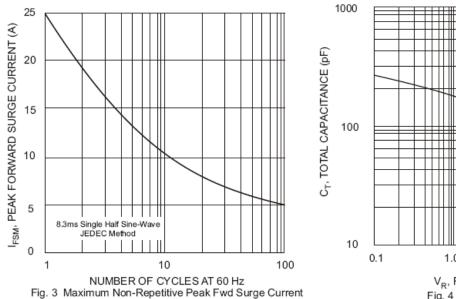


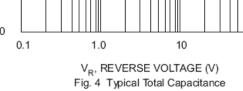
f = 1MHz



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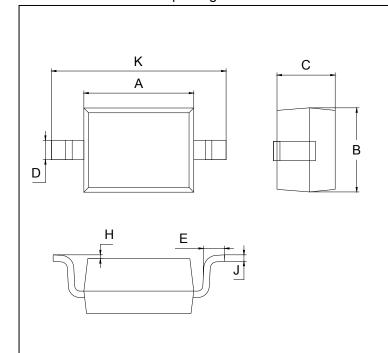


PACKAGE OUTLINE

Plastic surface mounted package

SOD-323

100



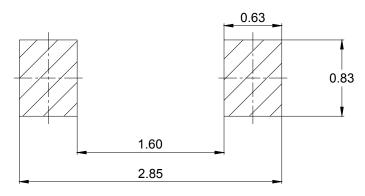
SOD-323				
Dim	Min	Max		
А	1.60	1.80		
В	1.20	1.40		
С	0.9 Max			
D	0.30 Typical			
Е	0.22	0.42		
Н	0.02	0.1		
J	0.1 Typical			
К	2.55	2.75		
All Dimensions in mm				



Schottky Barrier Diode

B5817WS-B5819WS

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

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