

FEATURES

Extremely low V_F. Low stored change,majority carrier conduction.

Low power loss/high efficient

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℃ 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	v
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectified output Current	l _o	1			А
Peak forward surge current@=8.3ms	I _{FSM}	20			А
Power Dissipation	P _d	250			m₩
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C/W
Storage temperature	T _{STG}	-65~+150			Ĉ

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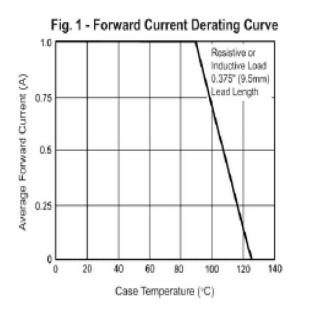


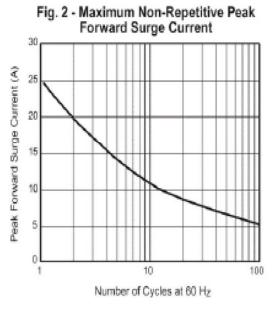


• ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test Condition		MIN	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R =1mA				
			B5817WS	20		v
			B5818WS	30		
			B5819WS	40		
Reverse voltage leakage current		V _R =20V	B5817WS			
	l _R	V _R =30V	B5818WS		1	mA
		V _R =40V	B5819WS			
Forward voltage		B5817WS	I _F =1A		0.45	
			I _F =3A		0.75	
	V	B5818WS	I _F =1A		0.55	l v
	V _F		I _F =3A		0.875	v
		B5819WS	I _F =1A		0.6]
			I _F =3A		0.9	
Diode capacitance	CD	V _R =4V,f=1MHz			120	pF

• TYPICAL CHARACTERISTICS @ Ta=25 °C unless otherwise specified

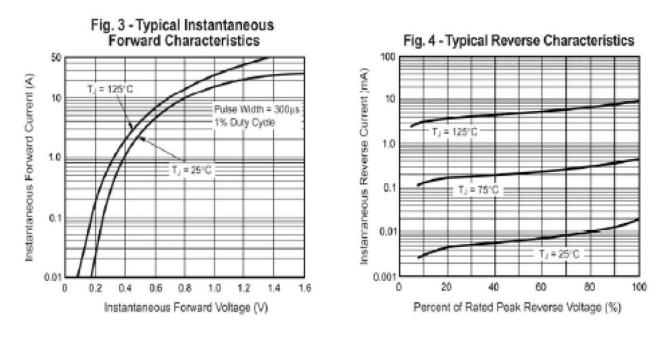


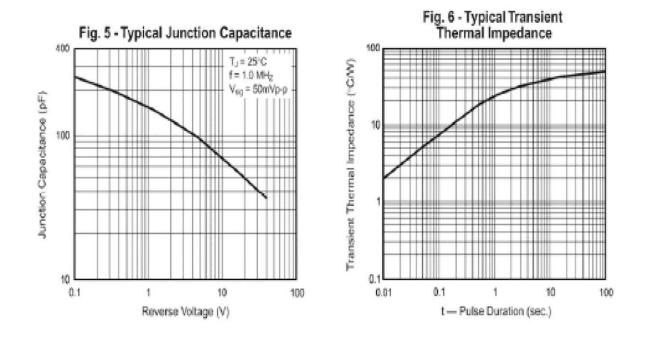


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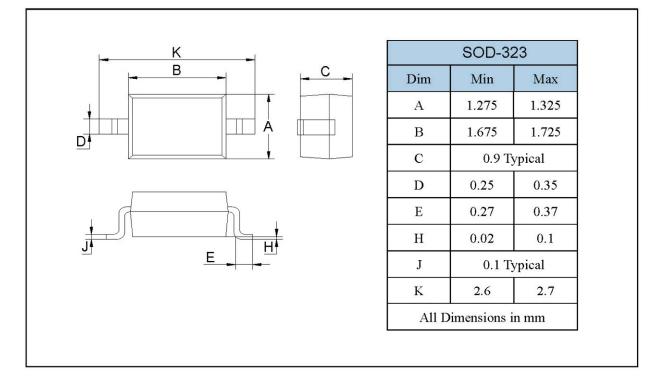
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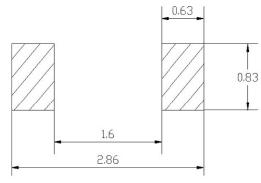


PACKAGE OUTLINE

Plastic surface mounted package



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

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

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