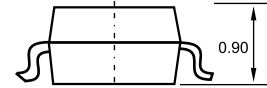
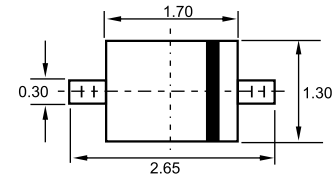



SOD-323

Features

- ✧ For use in low voltage, high frequency inverters
- ✧ Free wheeling, and polarity protection applications.

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Dimensions in inches and (millimeters)

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 Blocking 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	I_O	1			A
Peak forward surge current @=8.3ms	I_{FSM}	25			A
Repetitive Peak Forward Current	I_{FRM}	625			mA
Power Dissipation	P_d	250			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			°C/W
Storage temperature	T_{STG}	-65~+150			°C

ELECTRICAL CHARACTERISTICS

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

Typical Characteristics

