

## SCHOTTKY BARRIER DIODE

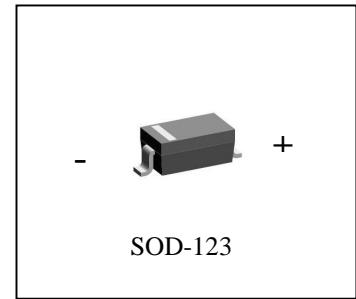
B5817W

## FEATURES

For use in low voltage, high frequency inverters

Free wheeling, and polarity protection applications.

MARKING: SJ



## MAXIMUM RATINGS (TA=25 °C unless otherwise noted)

Parameter	Symbol	Value	Units
Non-Repetitive Peak reverse voltage	$V_{RM}$	20	V
Peak Repetitive Peak reverse voltage	$V_{RRM}$	20	V
Working Peak Reverse Voltage	$V_{RWM}$	20	V
DC Blocking	$V_R$	20	V
RMS Reverse Voltage	R(RMS)	14	V
Average Rectified Output Current	$I_O$	0.3	A
Power Dissipation	$P_d$	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	°C/W
Storage temperature	$T_{STG}$	-65~+150	°C

## ELECTRICAL CHARACTERISTICS (Tamb=25 °C unless otherwise specified)

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

**B5817W Typical Characteristics**
