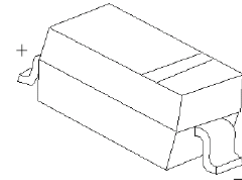


**FEATURES**

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

**MARKING:** SJ

**SOD-123**



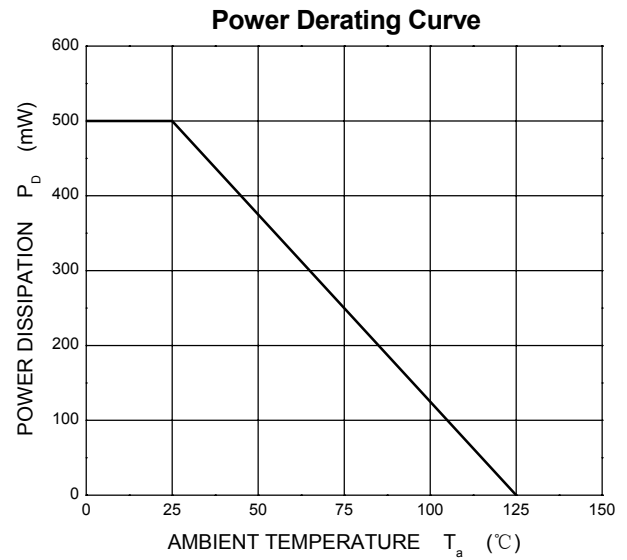
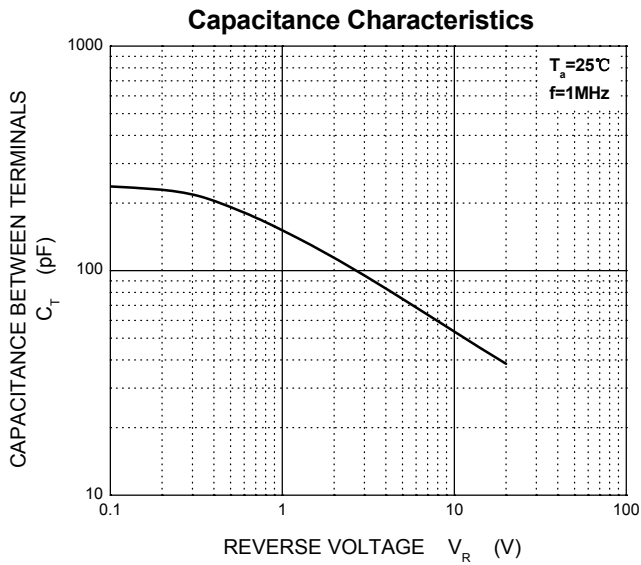
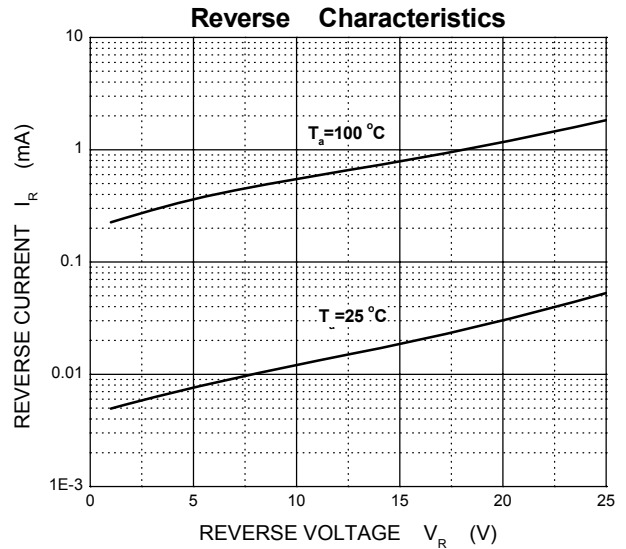
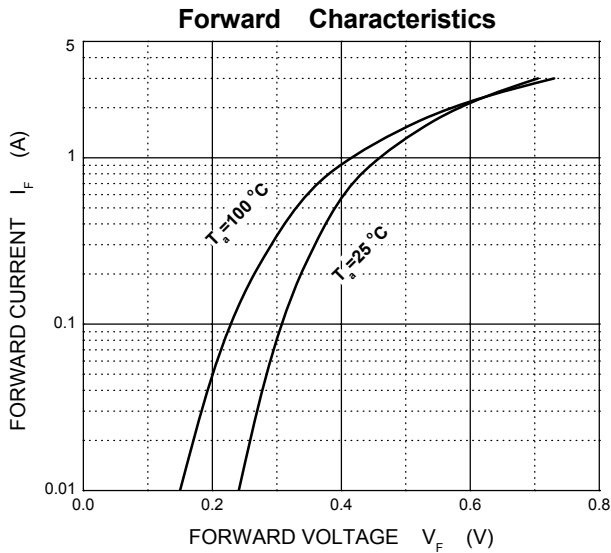
**Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C**

Parameter	Symbol	B5817W-CN	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	20	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	V
Average Rectified Output Current	$I_O$	1	A
Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	9	A
Repetitive Peak Forward Current	$I_{FRM}$	1.5	A
Power Dissipation	$P_D$	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	°C/W
Junction temperature	$T_J$	105	°C
Storage Temperature	$T_{STG}$	-55~+150	°C

**ELECTRICAL CHARACTERISTICS (Ta=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

# Typical Characteristics



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