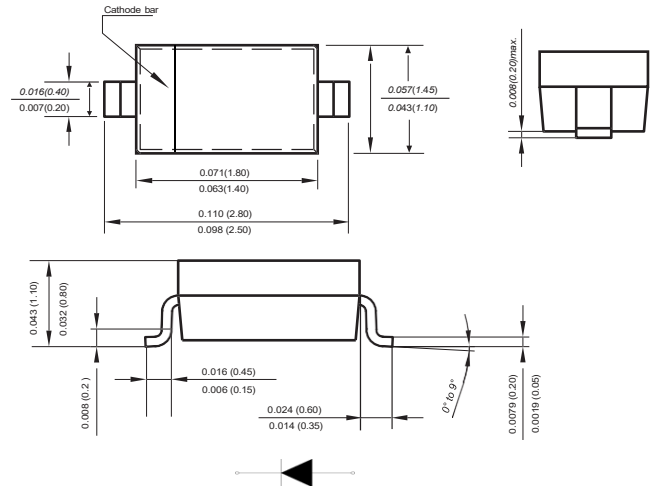


SCHOTTKY BARRIER

Features

- ◆ For use in low voltage, high frequency inverters
- ◆ Free wheeling, and polanty protection applications

SOD-323



Dimensions in inches and (millimeters)

Absolute Maximum Ratings at 25 °C

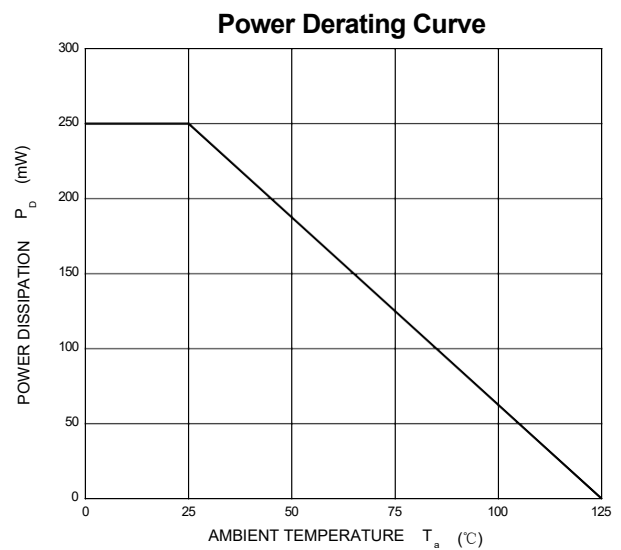
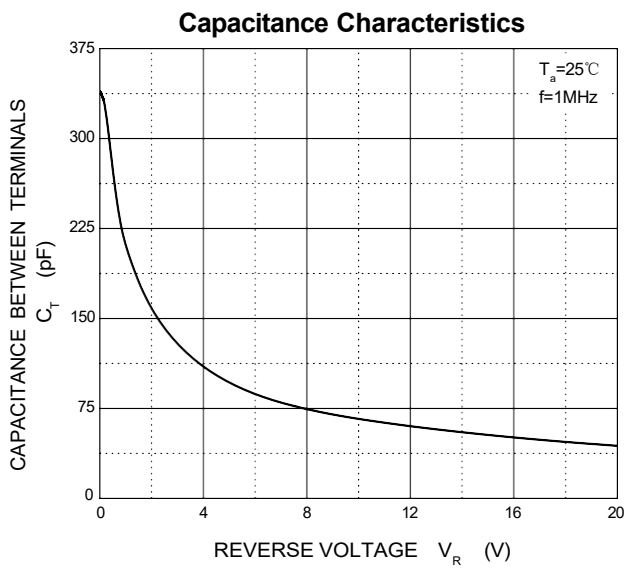
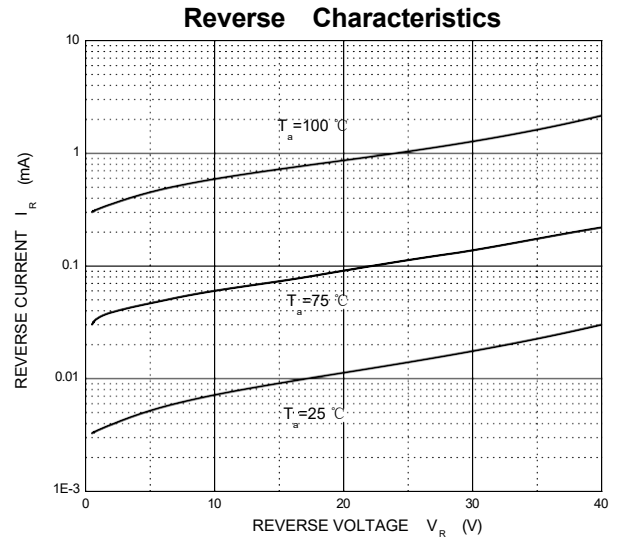
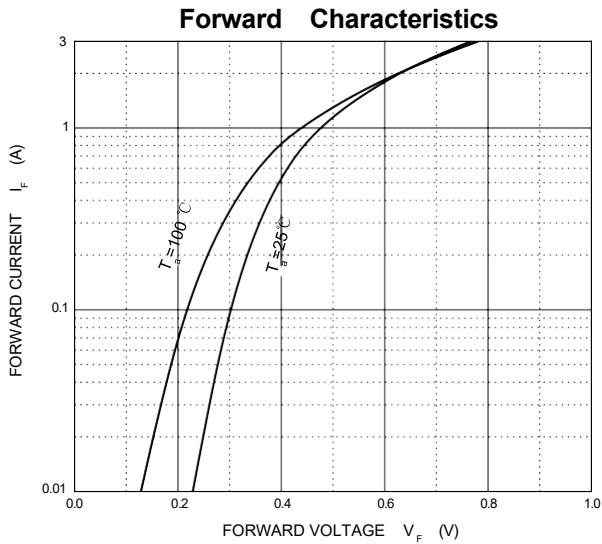
PARAMETER	SYMBOLS	B5817WS	B5818WS	B5819WS	UNITS
Peak repetitive peak reverse voltage	V_{RRM}				
Working peak	V_{RWM}	20	30	40	V
DC Blocking voltage	V_R				
RMS Reverse voltage	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	I_O	1			A
Peak forward surge current at 8.3ms	I_{FSM}	25			A
Power dissipation	P_d	250			mW
Thermal resistance junction to ambient	$R_{\theta JA}$	400			°C/W
Operating Junction Temperature Range	T_j	-55 to +125			°C
Storage temperature	T_{STG}	-55 to +125			°C
Non-Repetitive peak reverse voltage	V_{RM}	20	30	40	V

Characteristics at Ta= 25 °C

PARAMETER	SYMBOLS	Min.	Max.	Unit	Test conditions	
Reverse breakdown voltage	$V_{(BR)}$	20		V	$I_R=1mA$	B5817WS
		30		V	$I_R=10mA$	B5818WS
		40		V		B5819WS
Reverse voltage leakage current $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	I_R		1	mA	$V_R=20V$	B5817WS
			10		$V_R=30V$	B5818WS
					$V_R=40V$	B5819WS
Forward voltage	V_F		0.45 0.75	V	$I_F=1A$ $I_F=3A$	B5817WS
			0.55 0.875	V		B5818WS
			0.6 0.9	V		B5819WS
Diode capacitance	C_D		110	pF	$V_R=4V, f=1.0MHz$	

Typical Characteristics

B5819WS



The curve above is for reference only.