



B5817W

Preliminary

DIODE

SCHOTTKY DIODE

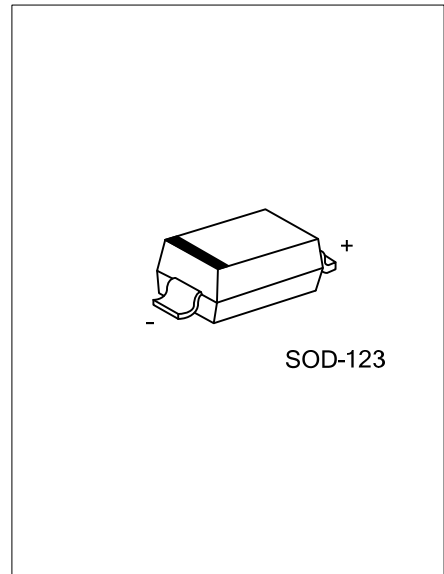
DESCRIPTION

The UTC **B5817W** is a schottky diode, it uses UTC's advanced technology to provide customers with low forward voltage drop, etc.

The UTC **B5817W** is suitable for low voltage and high frequency inverters.

FEATURES

* Low forward voltage drop



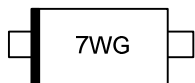
ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Packing
		1	2	
B5817WG-CA2-R	SOD-123	A	K	Tape Reel

Note: Pin assignment: A: Anode K: Cathode

<p>B5817WG-CA2-R</p>	<p>(1) R: Tape Reel</p> <p>(2) CA2: SOD-123</p> <p>(3) G: Halogen Free and Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{RM}	20	V
Working Peak Reverse Voltage	V_{RWM}	20	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	V
Average Rectified Output Current	I_O	1	A
Peak Forward Surge Current @=8.3ms	I_{FSM}	9	A
Power Dissipation	P_D	250	mW
Operating Junction Temperature	T_J	-65~+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-65~+150	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	500	$^{\circ}\text{C}/\text{W}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=1\text{mA}$	20			V
Forward Voltage	V_F	$I_F=1\text{A}$			0.45	V
		$I_F=3\text{A}$			0.75	V
Reverse Voltage Leakage Current	I_R	$V_R=20\text{V}$			1	mA
Total Capacitance	C_T	$V_R=4\text{V}, f=1.0\text{MHz}$			120	pF

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