



## B5817W

DIODE

### SCHOTTKY DIODE

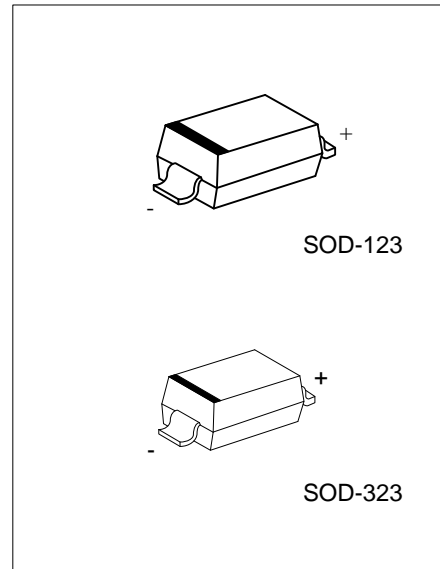
#### DESCRIPTION

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



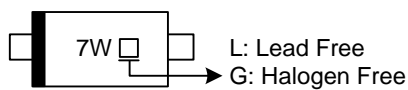
#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
B5817WL-CA2-R	B5817WG-CA2-R	SOD-123	A	K	Tape Reel
B5817WL-CB2-R	B5817WG-CB2-R	SOD-323	A	K	Tape Reel

Note: Pin assignment: A: Anode K: Cathode

<p>B5817WG-CA2-R</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) R: Tape Reel (2) CA2: SOD-123, CB2: SOD-323 (3) G: Halogen Free and Lead Free, L: 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	SOD-123	250	mW
	SOD-323	200	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.

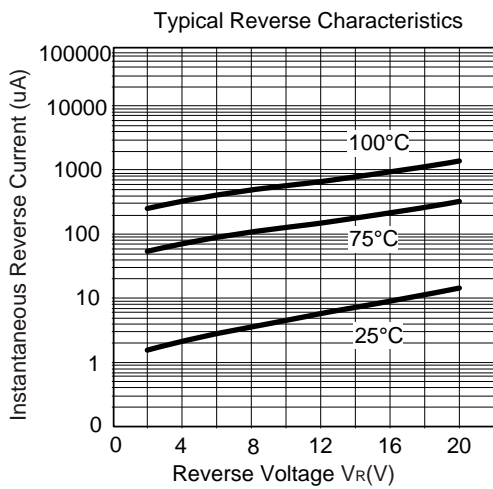
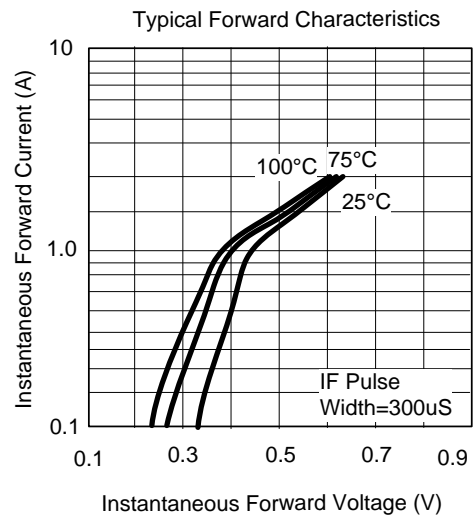
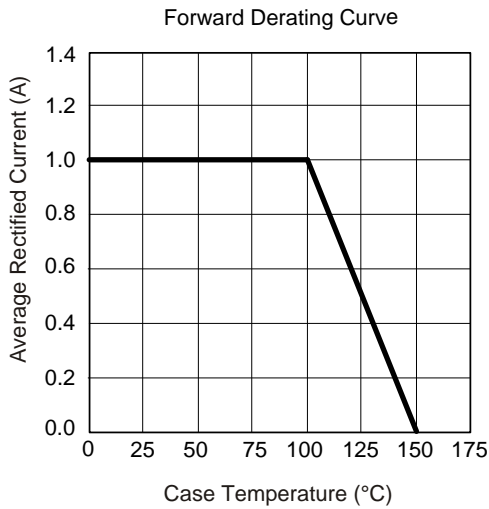
■ **THERMAL DATA**

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Junction to Ambient	SOD-123	500	$^{\circ}\text{C/W}$
	SOD-323	625	$^{\circ}\text{C/W}$

■ **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

## ■ TYPICAL CHARACTERISTICS



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