



B5817W

DIODE

SCHOTTKY DIODE

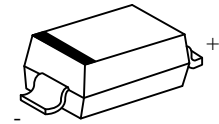
DESCRIPTION

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

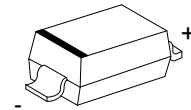
The UTC **B5817W** is suitable for low voltage and high frequency inverters.

FEATURES

* Low forward voltage drop



SOD-123



SOD-323

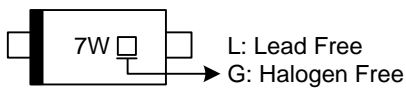
ORDERING INFORMATION

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°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	°C
Storage Temperature	T _{STG}	-65 ~ +150	°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.

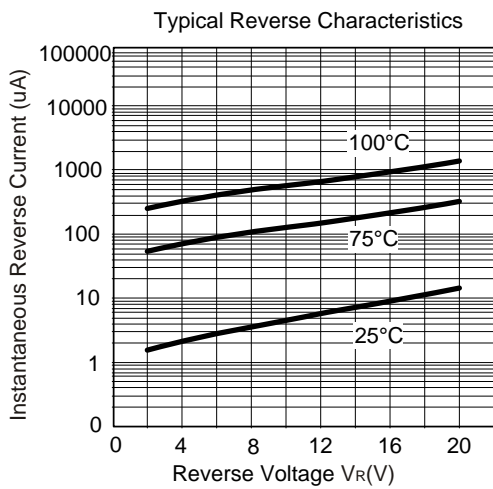
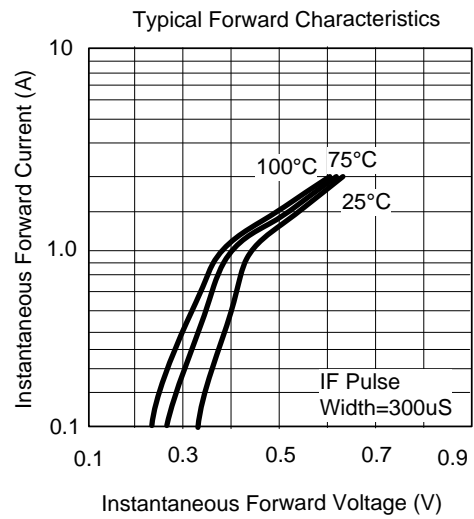
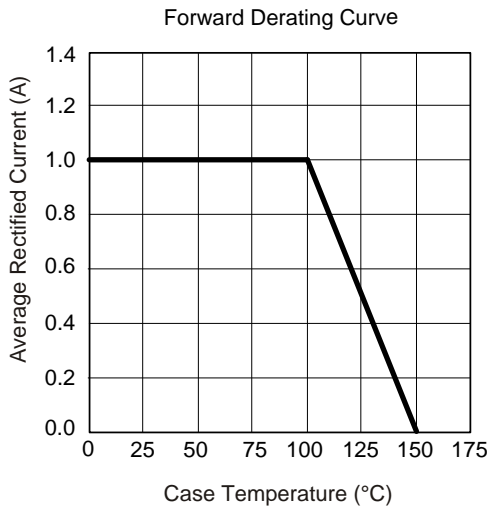
■ **THERMAL DATA**

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Junction to Ambient	SOD-123	500	°C/W
	SOD-323	625	°C/W

■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V _(BR)	I _R =1mA	20			V
Forward Voltage	V _F	I _F =1A			0.45	V
		I _F =3A			0.75	V
Reverse Voltage Leakage Current	I _R	V _R =20V			1	mA
Total Capacitance	C _T	V _R =4V, f=1.0MHz			120	pF

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.