



B5819WS

Preliminary

DIODE

1A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

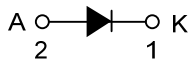
The UTC **B5819WS** is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, etc.

The UTC **B5819WS** is suitable for low voltage and high frequency inverters.

FEATURES

- * Low forward voltage drop
- * High surge current capability

SYMBOL



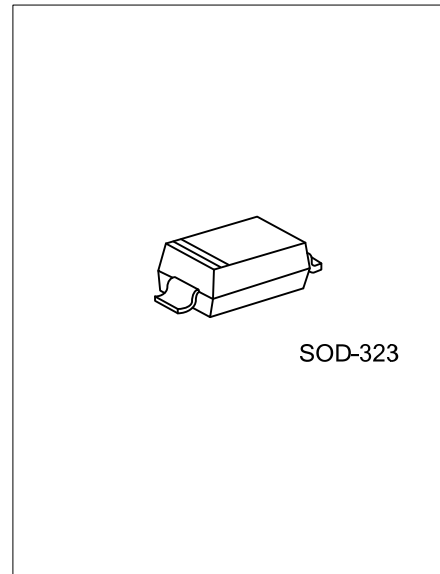
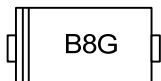
ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Packing
		1	2	
B5819WSG-CB2-R	SOD-323	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>B5819WSG-CB2-R</p>	<p>(1) R: Tape Reel</p> <p>(2) CB2 : SOD-323</p> <p>(3) G: Halogen Free and Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage	V_{RRM}	40	V
RMS Voltage	V_{RMS}	28	V
DC Blocking Voltage	V_{DC}	40	V
Average Forward Current $T_C=90^\circ\text{C}$	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Half Sine	I_{FSM}	10	A
Storage Temperature	T_{STG}	-65~+150	$^\circ\text{C}$
Operating Temperature	T_{OPR}	-65~+125	$^\circ\text{C}$

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

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

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_F	$I_{FM}=1.0\text{A}, T_J=25^\circ\text{C}$ (Note 1)			0.60	V
		$I_{FM}=3\text{A}, T_J=25^\circ\text{C}$ (Note 1)			0.90	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A=25^\circ\text{C}$			1	mA
Junction Capacitance	C_J	Measured at 1.0MHz, $V_R=4.0\text{V}$		120		pF

Note: Pulse Test: Pulse Width 300 μs , Duty Cycle 2%.

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