

## B5819WS

## 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		Deekege	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
B5819WSL-CB2-R	B5819WSG-CB2-R	SOD-323	К	А	Tape Reel	

Note: Pin Assignment: K: Cathode A: Anode

#### MARKING





DIODE

### ABSOLUTE MAXIMUM RATINGS

PARAMETER		SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	40	V
RMS Voltage		V <sub>RMS</sub>	28	V
DC Blocking Voltage		V <sub>DC</sub>	40	V
Average Forward Current	T <sub>C</sub> =90°C	I <sub>F(AV)</sub>	1.0	А
Peak Forward Surge Current 8.3ms Half Sine		I <sub>FSM</sub>	10	А
Storage Temperature		T <sub>STG</sub>	-65 ~ +150	°C
Operating Temperature		T <sub>OPR</sub>	-65 ~ +125	°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	θյΑ	500	°C/W	

### ■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub> =25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
	VE	I <sub>FM</sub> =1.0A, T <sub>J</sub> =25°C (Note 1)			0.60	V
Instantaneous Forward Voltage		I <sub>FM</sub> =3A, T <sub>J</sub> =25°C (Note 1)			0.90	V
DC Reverse Current at Rated DC Blocking	I <sub>R</sub>	T <sub>A</sub> =25°C			1	mA
Voltage					I	ША
Junction Capacitance	CJ	Measured at 1.0MHz, V <sub>R</sub> =4.0V		120		рF

Note: Pulse Test: Pulse width 300µs, Duty cycle 2%.



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## TYPICAL CHARACTERISTICS



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