

# UTC UNISONIC TECHNOLOGIES CO., LTD

SB1060 **Preliminary DIODE** 

# **10A SCHOTTKY BARRIER** RECTIFIER

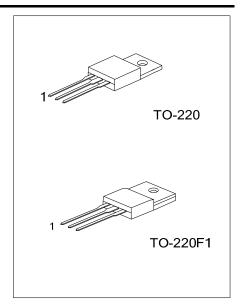
#### **DESCRIPTION**

The UTC SB1060 is a Schottky Rectifier with high current capacity and low forward voltage.

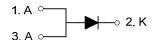
The UTC SB1060 is suitable for polarity protection ,low voltage and high frequency inverters and free wheeling applications.

#### **FEATURES**

- \* Guard Ring Transient Protection
- \* High surge Current Capability
- \* High Current Capability
- \* Low Forward Voltage
- \* For use in low voltage, high frequency inverters



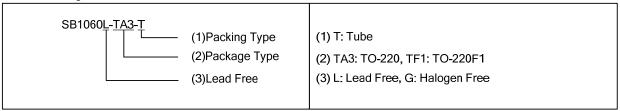
#### **SYMBOL**



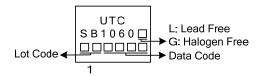
#### ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
SB1060L-TA3-T	SB1060G-TA3-T	TO-220	Α	K	Α	Tube	
SB1060L-TF1-T	SB1060G-TF1-T	TO-220F1	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



#### **MARKING**



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## ■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
Working Peak Reverse Voltage	$V_{RWM}$	60	V
Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
DC Blocking Voltage	$V_R$	60	V
Average Rectified Output Current	Io	10	V
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	I <sub>FSM</sub>	150	Α
Operating Temperature	TJ	-65~+150	°C
Storage Temperature	T <sub>STG</sub>	-65~+150	°C

Notes: 1. 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	$\theta_{JA}$	60	°C/W
Junction to Case	$\theta_{JC}$	3.0	°C/W

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I <sub>R</sub> =0.50mA	60			V
Forward Voltage Drop	$V_{FM}$	I <sub>F</sub> =10A, T <sub>J</sub> =25°C			0.75	V
		I <sub>F</sub> =10A, T <sub>J</sub> =100°C			0.70	V
Leakage Current (Note 1)	l low	V <sub>R</sub> =60V, T <sub>J</sub> =25°C			200	μΑ
		V <sub>R</sub> =60V, T <sub>J</sub> =100°C			50	mΑ

Notes: 1. Short duration pulse test used to minimize self-heating effect.

<sup>2.</sup> These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

<sup>2.</sup> Thermal resistance junction to case mounted on heatsink.

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