

# UTC UNISONIC TECHNOLOGIES CO., LTD

**SB560 Preliminary DIODE** 

# 5.0A SCHOTTKY BARRIER RECTIFIER

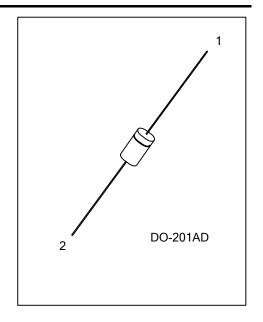
#### **DESCRIPTION**

The UTC SB560 is 5.0A schottky barrier rectifier. it uses UTC's advanced technology to provide customers with high current capability and low forward voltage drop, etc.

The UTC SB560 is suitable for free wheeling, low voltage and polarity protection applications, etc.

#### **FEATURES**

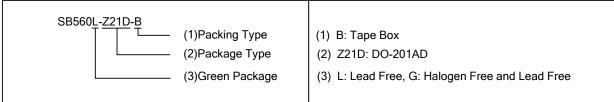
- \* Low forward voltage drop
- \* High surge capability
- \* Low power loss
- \* High efficiency
- \* High current capability



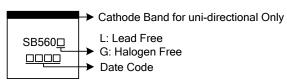
#### ORDERING INFORMATION

	Ordering Number		Dookogo	Pin Assignment		Dooking	
	Lead Free	Halogen Free	- Package	1	2	Packing	
Γ	SB560L-Z21D-B	SB560G-Z21D-B	DO-201AD	K	Α	Tape Box	

Note: Pin Assignment: A: Anode K: Cathode



# **MARKING**



www.unisonic.com.tw 1 of 3

## ■ **ABSOLUTE MAXIMUM RATINGS** (T<sub>A</sub> =25°C unless otherwise specified.)(Note 2)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	$V_R$	60	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	60	V
Working Peak Reverse Voltage	$V_{RWM}$	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current	Io	5.0	Α
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	I <sub>FSM</sub>	150	А
Power Dissipation	P <sub>D</sub>	3.7	W
Junction 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	$\theta_{JA}$	40	°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	I VEM	I <sub>F</sub> =5.0A, T <sub>J</sub> =25°C			0.67	V
		I <sub>F</sub> =5.0A, T <sub>J</sub> =100°C			0.62	V
eakage Current (Note 1)	PМ	V <sub>R</sub> =60V, T <sub>J</sub> =25°C			0.5	mA
		V <sub>R</sub> =60V, T <sub>J</sub> =100°C			25	mA

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.

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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

