

UNISONIC TECHNOLOGIES CO., LTD

SB560 DIODE

5.0A SCHOTTKY BARRIER RECTIFIER

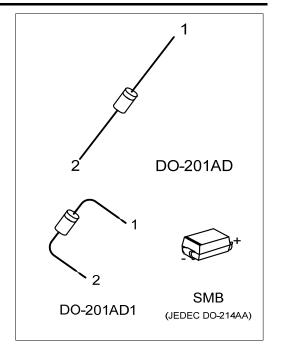
DESCRIPTION

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

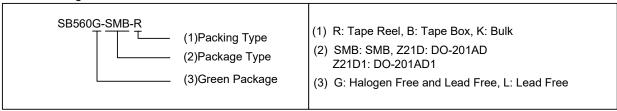
- * Low forward voltage drop
- * High surge capability
- * Low power loss
- * High efficiency
- * High current capability



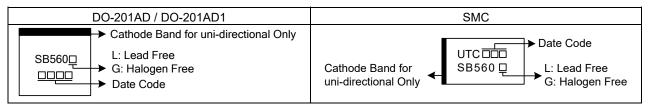
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment		Dealing	
Lead Free	Halogen Free	Package	1	2	Packing	
SB560L-SMB-R	SB560G-SMB-R	SMB	K	Α	Tape Reel	
SB560L-Z21D-B	SB560G-Z21D-B	DO-201AD	K	Α	Tape Box	
SB560L-Z21D1-B	SB560G-Z21D1-B	DO-201AD1	K	Α	Tape Box	
SB560L-Z21D-K	SB560G-Z21D-K	DO-201AD	K	Α	Bulk	
SB560L-Z21D1-K	SB560G-Z21D1-K	DO-201AD1	K	Α	Bulk	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



www.unisonic.com.tw 1 of 3 SB560 DIODE

■ ABSOLUTE MAXIMUM RATINGS (T_A=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		lo	5.0	Α
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave		I _{FSM}	150	А
Power Dissipation	DO-201AD DO-201AD1	P _D	3.7	W
	SMB		2.5	W
Junction Temperature		TJ	-65 ~ +125	°C
Storage Temperature		T _{STG}	-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	DO-201AD DO-201AD1	θја	40	°C/W
	SMB		50 (Note)	°C/W

Note: Device mounted on FR-4 substrate PC board, 2oz copper, with 1inch square copper plate.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	I _R =0.50mA	60			V
Formulard Valtage Draw	V _{FM}	I _F =5.0A, T _J =25°C			0.67	V
Forward Voltage Drop		I _F =5.0A, T _J =100°C			0.62	V
Leakage Current (Note 1)	I _{RM}	V _R =60V, T _J =25°C			0.5	mA
		V _R =60V, T _J =100°C			25	mA

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

2. Thermal resistance junction to case mounted on heatsink.

^{2.} These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

SB560 DIODE

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.