

UTC UNISONIC TECHNOLOGIES CO., LTD

SB5200 **Preliminary DIODE**

SCHOTTKY BARRIER RECTIFIER

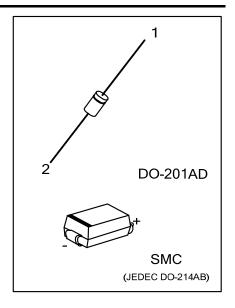
DESCRIPTION

The UTC SB5200 is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with high current capability and low forward voltage drop, etc.

The UTC SB5200 is suitable for free wheeling, low voltage, high frequency inverters and polarity protection applications.

FEATURES

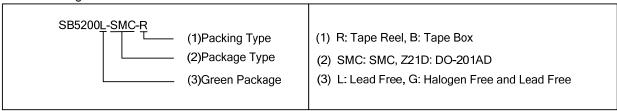
- * Low forward voltage drop
- * High current capability



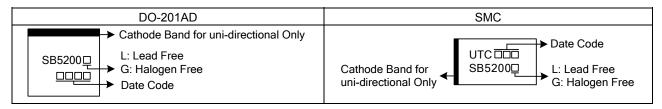
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
SB5200L-SMC-R	SB5200G-SMC-R	SMC	K	Α	Tape Reel	
SB5200L-Z21D-B	SB5200G-Z21D-B	DO-201AD	K	Α	Tape Box	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



www.unisonic.com.tw 1 of 3 QW-R601-235.c

ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
RMS Voltage	V_{RMS}	140	V
DC Blocking Voltage	V_{DC}	200	V
Average Forward Rectified Current	I _F	5.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	100.0	Α
Junction Temperature	T_J	-55~+150	°C
Storage Temperature	T _{STG}	-55~+150	°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	
lumation to Ambient	SMC	0	70	°C/W	
Junction to Ambient	DO-201AD	θ_{JA}	50	°C/W	

■ ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantance Converd Voltage	\/	I _F =5A, T _A =25°C			0.9	V
Instantaneous Forward Voltage	V_{F}	I _F =5A, T _A =100°C			0.8	V
DC Reverse Current at Rated DC Blocking		T _A =25°C			0.2	mA
Voltage	IR	T _A =100°C			5.0	mA
Junction Capacitance	CJ				110	pF

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