

UTC UNISONIC TECHNOLOGIES CO., LTD

SB130

Preliminary

DIODE

1.0A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC SB130 is a 1.0A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, high current capability and high efficiency, etc.

The UTC SB130 is suitable for use in free wheeling, high frequency inverters, low voltage and polarity protection applications.

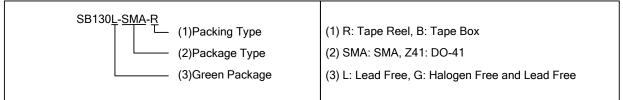
FEATURES

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

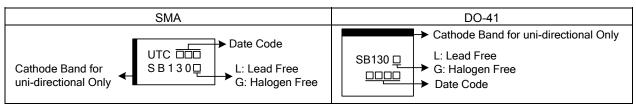
ORDERING INFORMATION

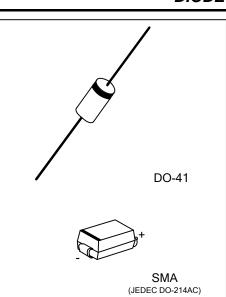
Ordering Number		Daakaga	Pin Assignment		Deaking	
Lead Free	Halogen Free	Package	1	2	Packing	
SB130L-SMA-R	SB130G-SMA-R	SMA	К	А	Tape Reel	
SB130L-Z41-B	SB130G-Z41-B	DO-41	К	А	Tape Box	
SB130L-Z41-R	SB130G-Z41-R	DO-41	К	А	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING





■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
Working Peak Reverse Voltage	V _{RWM}	30	V
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
DC Blocking Voltage	V _R	30	V
Average Rectified Output Current	lo	1.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	25	A
Operating Junction Temperature	TJ	-65~+125	°C
Storage Temperature	T _{STG}	-65~+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	
lunction to Ambient	SMA	0	95	°C/W	
Junction to Ambient	DO-41	θ_{JA}	50	°C/W	

■ ELECTRICAL CHARACTERISTICS (Note 2) (T_A=25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.50mA	30			V
Forward Voltage Drop	V _{FM}	I _F =1.0A			0.55	V
Peak Reverse Current at Rated DC	1	T _A =25°C			1.0	mA
Blocking Voltage	I _{RM}	T _A =100°C			10	mA

Notes: 1. Measured at ambient temperature at a distance of 9.5mm from the case.

2. Short duration test pulse used to minimize self-heating effect.



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