

UTC UNISONIC TECHNOLOGIES CO., LTD

SB460 Preliminary DIODE

4.0A SCHOTTKY BARRIER RECTIFIER

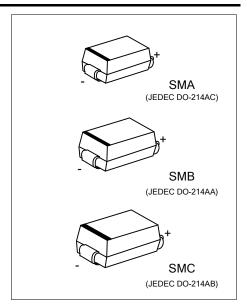
DESCRIPTION

The UTC SB460 is a Schottky Rectifier with high current capacity and low forward voltage.

The UTC SB460 is suitable for polarity protection ,low voltage and high frequency inverters and free wheeling applications

FEATURES

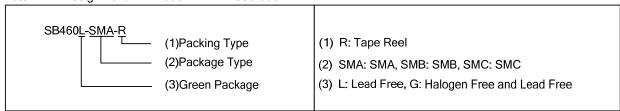
- * High Current Capability
- * Low Forward Voltage



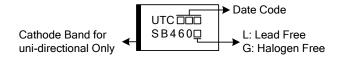
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
SB460L-SMA-R	SB460G-SMA-R	SMA	K	Α	Tape Reel	
SB460L-SMB-R	SB460G-SMB-R	SMB	K	Α	Tape Reel	
SB460L-SMC-R	SB460G-SMC-R	SMC	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



www.unisonic.com.tw 1 of 3 VER.a

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

PARAMETER	SYMBOL	RATINGS	UNIT
Working Peak Reverse Voltage	V_{RWM}	60	V
Peak Repetitive 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	4.0	Α
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	I _{FSM}	150	Α
Operating Temperature	TJ	-65~+150	°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	θ_{JA}	50	°C/W

■ **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
Forward Voltage Drop	V_{FM}	I _F =4.0A, T _J =25°C			0.67	V
		I _F =4.0A, T _J =100°C			0.62	٧
Leakage Current (Note 1)	I _{RM}	V _R =60V, T _J =25°C			500	μΑ
		V _R =60V, T _J =100°C			25	mA

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

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

^{2.} Thermal resistance junction to case mounted on heatsink.

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