

UNISONIC TECHNOLOGIES CO., LTD

SBL3060C Preliminary DIODE

30A SCHOTTKY BARRIER RECTIFIER

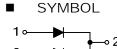
DESCRIPTION

The UTC **SBL3060C** is a 30A 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 **SBL3060C** is suitable for free wheeling, high frequency inverters, low voltage and polarity protection applications.

■ FEATURES

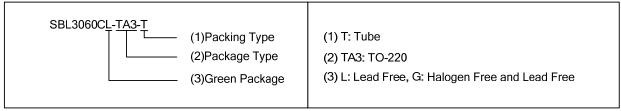
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * Low power loss
- * High efficiency



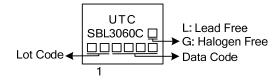
Ordering Number		Daalaasa	Pin Assignment			Dankina	
Lead Free	Halogen Free	Package	1	2	3	Packing	
SBL3060CL-TA3-T	SBL3060CG-TA3-T	TO-220	Α	K	Α	Tube	

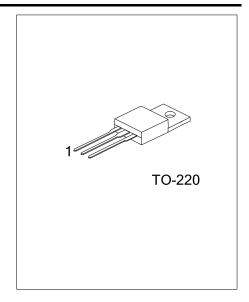
Note: Pin Assignment: A: Anode K: Cathode

ORDERING INFORMATION



MARKING





<u>www.unisonic.com.tw</u> 1 of 3

■ 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
DC Blocking Voltage		V_R	60	V
Working Peak Reverse Voltage		V_{RWM}	60	V
Peak Repetitive Reverse Voltage		V_{RRM}	60	V
RMS Reverse Voltage		$V_{R(RMS)}$	42	V
Average Rectified Output Current (Note 2)	Per Leg		15	Α
$T_{C} = 105^{\circ}C$	Total	I _O	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	165	А
Operating Junction Temperature		T_J	-65~+150	°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	
Junction to Ambient	θ_{JA}	50	°C/W	
Junction to Case (Note 1)	$\theta_{ m JC}$	3	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage Drop	V_{F}	I _F =15A, T _C =25°C			0.73	V
Instantaneous Reverse Current (Note 3)	l lo	V _R =60V, T _C =25°C			100	μΑ
		V _R =60V, T _C =100°C			75	mΑ

Notes: 1. Thermal resistance junction to case mounted on heatsink.

- 2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- 3. Short duration pulse test used to minimize self-heating effect.

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.

