

UTC UNISONIC TECHNOLOGIES CO., LTD

SBL2060C Preliminary DIODE

20A SCHOTTKY BARRIER RECTIFIER

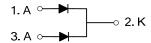
DESCRIPTION

The UTC SBL2060C is a 20A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

FEATURES

- * Low forward voltage drop
- * High switching speed
- * High temperature stability
- * Halogen Free

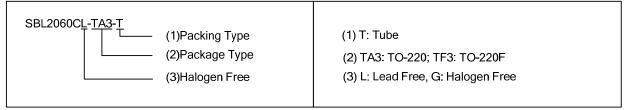
SYMBOL



ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
SBL2060CL-TA3-T	SBL2060CG-TA3-T	TO-220	Α	K	Α	Tube	
SBL2060CL-TF3-T	SBL2060CG-TF3-T	TO-220F	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode, K: Cathode



MARKING INFORMATION

PACKAGE	MARKING			
TO-220 TO-220F	UTC SBL2060C□ G: Halogen Free Lot Code			

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TO-220

TO-220F

■ ABSOLUTE MAXIMUM RATINGS (Per Leg) (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_{RM}	60	V
Working Peak Reverse Voltage		V_{RWM}	60	V
Peak Repetitive Reverse Voltage		V_{RRM}	60	V
RMS Reverse Voltage		$V_{R(RMS)}$	35	V
Average Destified Output Compant	Per Leg	Io	10	Α
Average Rectified Output Current	Total		20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	250	Α
Isolation Voltage From Terminal Heatsink t=1min.		V _{AC}	2000	V
Storage Temperature		T_{STG}	-65~+150	°C
Operating Junction Temperature		TJ	-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 CHARACTERISTICS (Per Leg)

PARAMETER	SYMBOL	RATINGS	UNIT	
Junction to Ambient	θ_{JA}	62.5	°C/W	
Junction to Case	θјς	3	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	l V⊏	I _F =10A, T _J =25°C		0.64	0.75	V
		I _F =10A, T _J =125°C		0.59	0.70	V
Leakage Current (Note 1)	l lo	V _R =60V, T _J =25°C		0.04	1.0	mA
		V _R =60V, T _J =100°C			50	mΑ

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

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