

UNISONIC TECHNOLOGIES CO., LTD

SBL1060 Preliminary DIODE

10A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

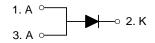
The UTC **SBL1060** is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

The UTC **SBL1060** is suitable for use in free wheeling diodes, high frequency switch power supply and polarity protection applications.

■ FEATURES

- * Low forward voltage drop
- * Low power loss
- * High efficiency
- * High reliability

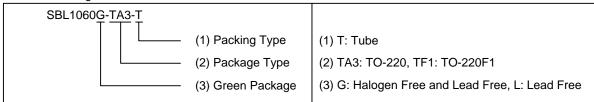
■ SYMBOL



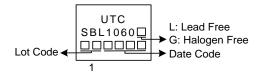
■ ORDERING INFORMATION

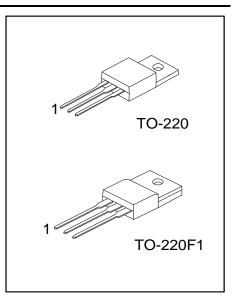
Ordering Number		Doolsono	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
SBL1060L-TA3-T	SBL1060G-TA3-T	TO-220	Α	K	Α	Tube	
SBL1060L-TF1-T	SBL1060G-TF1-T	TO-220F1	A	K	Α	Tube	

Note: Pin Assignment: A: Athode K: Cathode



■ MARKING





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

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 Forward Rectified Current	Ιο	10	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I _{FSM}	250	Α
Operating Junction Temperature	T_J	-65 ~ +150	°C
Storage Temperature	T_{STG}	-65 ~ + 150	ô

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 (T_A=25°C, unless otherwise noted.)

PARAMETER		SYMBOL	RATINGS	UNIT	
Junction to Ambient	TO-220 TO-220F1	θја	62.5	°C/W	
Junction to Case	TO-220	0	2	°C/W	
	TO-220F1	θ _{JC}	4	°C/W	

■ **ELECTRICAL CHARACTERISTICS (Note 1)** (T_A =25°C, unless otherwise noted.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_{F}	I _F =10A, T _C =25°C			0.75	V
Instantaneous Reverse Current at Rated DC		T _C =25°C			1.0	mA
Blocking Voltage Per Diode	IR	T _C =100°C			50	mA
Junction Capacitance (Note 2)	CJ			700		pF

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

^{2.} Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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