

UTC UNISONIC TECHNOLOGIES CO., LTD

SBL1060

Preliminary

DIODE

10A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

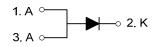
The UTC SBL1060 is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

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



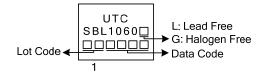
ORDERING INFORMATION

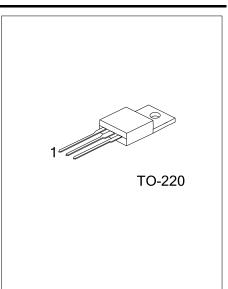
Ordering Number		Deekege	Pin Assignment			Deaking
Lead Free	Halogen Free	Package	1	2	3	Packing
SBL1060L-TA3-T	SBL1060G-TA3-T	TO-220	Α	К	Α	Tube

Note:	Pin Assignment: A: Athode	K: Cathode

SBL1060L- <u>TA3-T</u>		
	(1) Packing Type	(1) T: Tube
	(2) Package Type	(2) TA3: TO-220
	(3) Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





■ **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	Ιo	10	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I _{FSM}	250	А
Operating Junction Temperature	ТJ	-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 CHARACTERISTICS (T_A =25°C, unless otherwise noted.)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	62.5	°C/W
Junction to Case	θ _{JC}	3.5	°C/W

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	VF	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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