

# UNISONIC TECHNOLOGIES CO., LTD

SBL1060 Preliminary DIODE

# 10A SCHOTTKY BARRIER RECTIFIER

#### DESCRIPTION

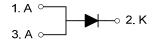
The UTC **SBL1060** is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

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

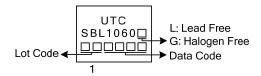
Ordering Number		Doolsono	Pin Assignment			Deeking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
SBL1060L-TA3-T	SBL1060G-TA3-T	TO-220	Α	K	Α	Tube	

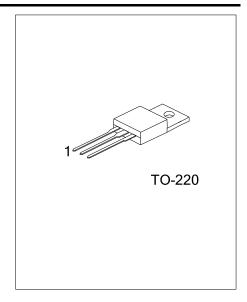
Note: Pin Assignment: A: Athode K: Cathode

SBL1060L-TA3-T

(1) Packing Type
(2) Package Type
(3) Green Package
(3) L: Lead Free, G: Halogen Free and Lead Free

#### MARKING





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## ■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=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	Io	10	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I <sub>FSM</sub>	250	Α
Operating Junction Temperature	$T_J$	-65~+150	°C
Storage Temperature	T <sub>STG</sub>	-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<sub>A</sub>=25°C, unless otherwise noted.)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	62.5	°C/W
Junction to Case	$\theta_{JC}$	3.5	°C/W

#### ■ ELECTRICAL CHARACTERISTICS (Note 1) (T<sub>A</sub> = 25°C, unless otherwise noted.)

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

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

<sup>2.</sup> Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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