

UNISONIC TECHNOLOGIES CO., LTD

SBL1040

Preliminary

DIODE

10A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC SBL1040 is a 10A 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 SBL1040 is suitable for free wheeling, high frequency inverters, low voltage and polarity protection applications.



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

SYMBOL

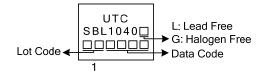
ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Decking
Lead Free	Halogen Free	Package	1	2	3	Packing
SBL1040L-TA3-T	SBL1040G-TA3-T	TO-220	Α	К	Α	Tube
Note: Pin Assignment: A: Athode K: Cathode						

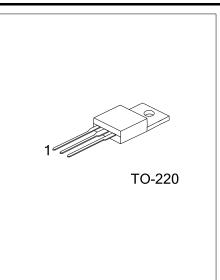
Note: Pin Assignment: A: Athode K: Cathode

SBL1040L- <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	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Forward Rectified Current	Ι _Ο	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	TJ	-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	θις	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	V _F	I _F =10A, T _C =25°C			0.60	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		рF

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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