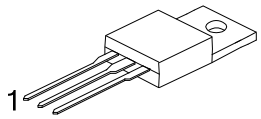
10A SCHOTTKY BARRIER RECTIFIER



TO-220

■ DESCRIPTION

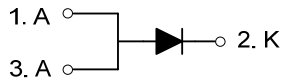
The UTC **SBL1060** is a schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high efficiency, etc.

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



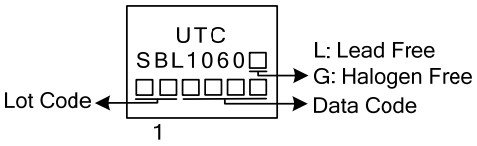
■ ORDERING INFORMATION

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

Note: Pin Assignment: A: Athode K: Cathode

SBL1060L-TA3-T (1) Packing Type (2) Package Type (3) Green Package	(1) T: Tube (2) TA3: TO-220 (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	I_O	10	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I_{FSM}	250	A
Operating Junction Temperature	T_J	-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	V_F	I_F=10A, T_C=25°C			0.75	V
Instantaneous Reverse Current at Rated DC Blocking Voltage Per Diode	I_R	T_C=25°C			1.0	mA
		T_C=100°C			50	mA
Junction Capacitance (Note 2)	C_J			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.