



SBL3040C

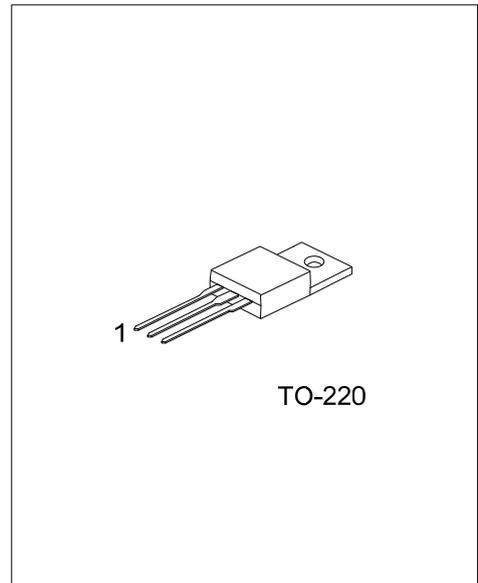
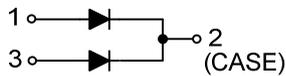
DIODE

SCHOTTKY BARRIER RECTIFIER DIODES

FEATURES

- * Guard Ring for Transient Protection
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * High Current Capability and Low Forward Voltage Drop

SYMBOL



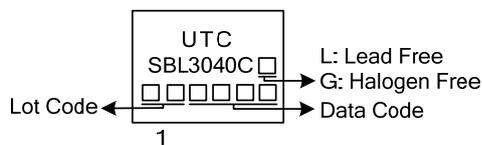
ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
SBL3040CL-TA3-T	SBL3040CG-TA3-T	TO-220	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

<p>SBL3040CL-TA3-T</p> <p>(1) Packing Type (2) Package Type (3) Lead Plating</p>	<p>(1) T: Tube (2) TA3: TO-220 (3) L: Lead Free, G: Halogen Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage	V_{RRM}	40	V
RMS Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R	40	V
Average Forward Rectified Current	Per Leg	15	A
	Per Package	30	
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	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$

Note: 1. 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.

2. Thermal resistance junction to case mounted on heatsink.

■ THERMAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise noted.)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ_{JC}	1.5	$^{\circ}\text{C}/\text{W}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise noted.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	V_F	$T_C=25^{\circ}\text{C}$, $I_F=15\text{A}$			0.55	V
Total Capacitance (Note 2)	C_T			450		pF
Instantaneous Reverse Current at Rated DC Blocking Voltage Per Diode (Note 1)	I_R	$T_C=25^{\circ}\text{C}$			1.0	mA
		$T_C=100^{\circ}\text{C}$			75	mA

Notes: 1. Pulse Test: 300 μs pulse width, 1% duty cycle.

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

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