SBL2040CT thru 2060CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 40 to 60 Volts FORWARD CURRENT - 20 Ampere

FEATURES

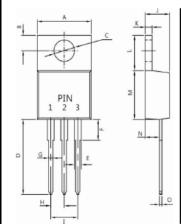
- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- · High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequence inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

• Case: TO-220AB molded plastic • Polarity: As marked on the body • Weight: 0.08 ounces, 2.24 grams

• Mounting position : Any

TO-220AB



Dim.	Min.	Max.			
Α		10.50			
В	2.50	3.50			
С	3.50	4.10			
D	13.10	13.90			
Е	1.15	1.45			
F		6.35			
G	0.65	0.95			
Н	4.80	5.30			
I	4.40	4.80			
J	1.14	1.40			
K	5.84	6.86			
L	8.50	9.60			
М	2.03	2.92			
N	0.30	0.64			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SBL 2040CT	SBL 2045CT	SBL 2060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	60	V
Maximum RMS Voltage	V _{RMS}	28	31.5	42	V
Maximum DC Blocking Voltage	V_{DC}	40	45	60	V
Maximum Average Forward Rectified Current (See Fig.1) @ T_C =95 $^{\circ}$ C	I _(AV)	20			A
Peak Forward Surge current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	I _{FSM}	250		225	А
Maximum forward Voltage at 10A DC (Note 1)	VF	00	55	0.75	V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	: 5	1 0	0.1 50	mA
Typical Junction Capacitance (Note 2)	CJ	600			рF
Typical Thermal Resistance (Note 3)	Rejc	2.0			°C/W
Operating Temperature Range	TJ	-55 to +125		°C	
Storage Temperature Range	TstG	-55 to +150		°C	
NOTES: 1. 300us Pulse Width, 2% Duty Cycle. REV.0, 01Oct-2013					

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

3. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES SBL2040CT thru SBL2060CT

