# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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# **SBL3030CT - SBL3060CT**

## **30A SCHOTTKY BARRIER RECTIFIER**

### **Features**

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Plastic Material: UL Flammability Classification Rating 94V-0

#### **Mechanical Data**

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



TO-220AB					
Dim	Min	Max			
Α	14.22	15.88			
В	9.65	10.67			
С	2.54	3.43			
D	5.84	6.86			
Е		6.35			
G	12.70	14.73			
н	2.29	2.79			
J	0.51	1.14			
К	3.53Ø	4.09Ø			
L	3.56	4.83			
М	1.14	1.40			
N	0.30	0.64			
Р	2.03	2.92			
All Dimensions in mm					

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SBL 3030CT	SBL 3040CT	SBL 3045CT	SBL 3050CT	SBL 3060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	30	40	45	50	60	v
RMS Reverse Voltage	V <sub>R(RMS)</sub>	21	28	32	35	42	V
Average Rectified Output Current (Note 1)	lo 30			A			
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		250					A
Forward Voltage Drop $@$ I <sub>F</sub> = 15A, T <sub>C</sub> = 25°C		0.55 0.70				70	V
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		1.0 75					mA
Typical Junction Capacitance (Note 2)		420					pF
Typical Thermal Resistance Junction to Case (Note 1)		2.5					°C/W
Operating and Storage Temperature Range		-65 to +150					°C

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

2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.



