

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SBL1030 - SBL1060

10A 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
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

Case: TO-220AC

 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

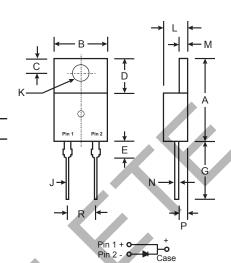
Moisture Sensitivity: Level 1 per J-STD-020C

Polarity: See Diagram

 Terminals: Finish – Bright Tin. Solderable per MIL-STD-202, Method 208

Marking: Type Number

• Weight: 2.24 grams (approx.)



TO-220AC						
Dim	Min	Max				
Α	14.48	15.75				
В	10.00	10.40				
С	2.54	3.43				
D	5.90	6.40				
E	2.80	3.93				
G	12.70	14.27				
J	0.69	0.93				
K	3.54	3.78				
L	4.07	4.82				
M	1.15	1.39				
N	0.30	0.50				
Р	2.04	2.79				
R	4.83	5.33				
All Dimensions in mm						

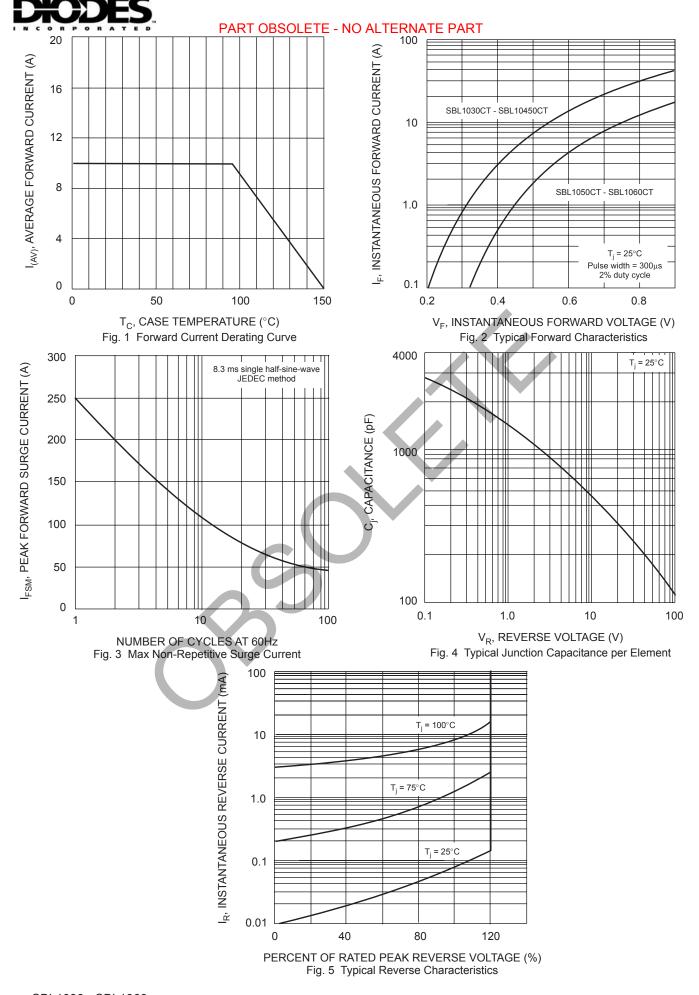
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

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

Characteristic	Symbol	SBL 1030	SBL 1035	SBL 1040	SBL 1045	SBL 1050	SBL 1060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current @ T _C = 95°C (Note 1		10				•	Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		250				А		
Forward Voltage Drop @ $I_F = 10A$, $T_C = 25^{\circ}C$	V _{FM}		0.	60		0.	75	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					mA			
Typical Junction Capacitance (Note 2	Cj			70	00			pF
Thermal Resistance Junction to Case (Note 1	R ₀ JC			3	.5			°C/W
Operating and Storage Temperature Range	T _j , T _{STG}			-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.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.





Ordering Information (Note 4)

Device	Packaging	Shipping
SBL10xx*	TO-220AC	50/Tube

^{*} xx = Device type, e.g. SBL1045

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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