

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!



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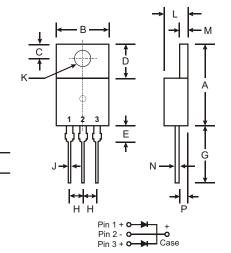


SBL2030CT - SBL2060CT

20A 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



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

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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: AnyMarking: Type Number

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

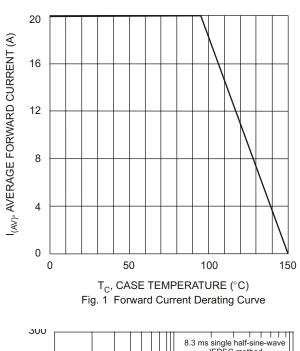
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

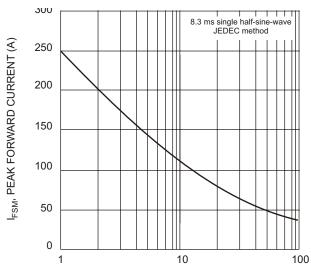
Characteristic	Symbol	SBL 2030CT	SBL 2035CT	SBL 2040CT	SBL 2045CT	SBL 2050CT	SBL 2060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	٧
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current (Note 1) @ T _C = 95°C	lo	20						Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250						А
Forward Voltage Drop @ $I_F = 10A$, $T_C = 25^{\circ}C$	V _{FM}	0.55 0.75				V		
Peak Reverse Current $@T_C = 25^{\circ}C$ at Rated DC Blocking Voltage $@T_C = 100^{\circ}C$		1.0 50						mA
Typical Junction Capacitance (Note 2)	Cj	650					pF	
Typical Thermal Resistance Junction to Case (Note 1)	R ₀ JC	2.8					°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 1.0 MHz and Applied Reverse Voltage of 4.0V DC.







NUMBER OF CYCLES AT 60Hz Fig. 3 Maximum Non-Repetitive Surge Current

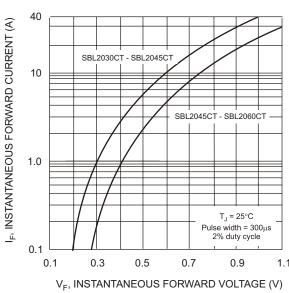


Fig. 2 Typical Forward Voltage

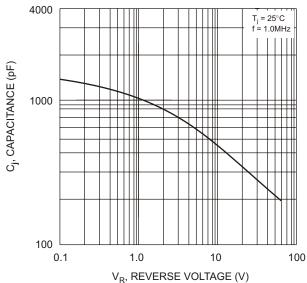
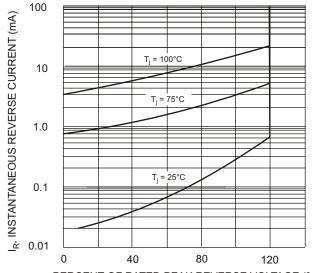


Fig. 4 Typical Junction Capacitance



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics