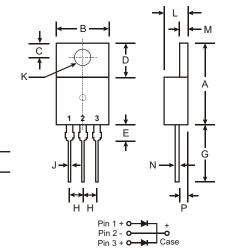


SBL2030CT - SBL2060CT

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					
Α	14.22	15.88					
В	9.65	10.67					
С	2.54	3.43					
D	5.84	6.86					
E	_	6.35					
G	12.70	14.73					
Н	2.29	2.79					
J	0.51	1.14					
K	3.53∅	4.09∅					
L	3.56	4.83					
М	1.14	1.40					
N	0.30	0.64					
Р	2.03	2.92					
All Dimensions in mm							

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

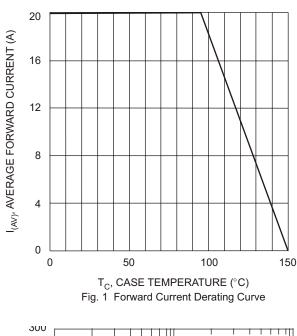
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

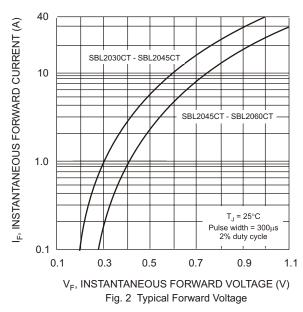
Characteristic	Symbol	SBL 2030CT	SBL 2035CT	SBL 2040CT	SBL 2045CT	SBL 2050CT	SBL 2060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current (Note 1) @ T _C = 95°C	Io	l ₀ 20			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}	FM 0.55 0.75		75	V			
	TO TO TO TO					mA		
Typical Junction Capacitance (Note 2)		650					pF	
Typical Thermal Resistance Junction to Case (Note 1)		2.8					°C/W	
Operating and Storage Temperature Range		-65 to +150					°C	

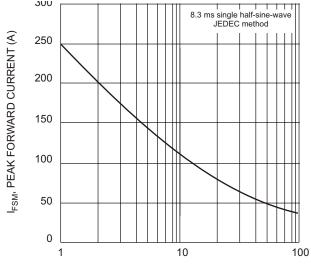
Notes: 1. Thermal resistance junction to case mounted on heatsink.

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

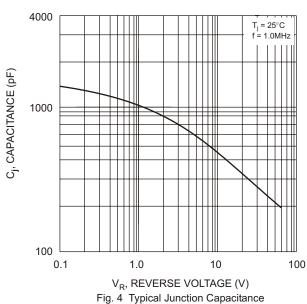


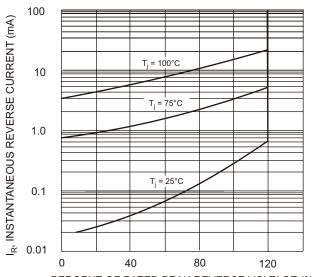






NUMBER OF CYCLES AT 60Hz
Fig. 3 Maximum Non-Repetitive Surge Current





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