



Micro Commercial Components

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# SBL2020CT THRU SBL20100CT

**20 Amp  
 Schottky  
 Barrier Rectifier  
 20 to 100 Volts**

## Features

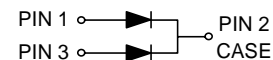
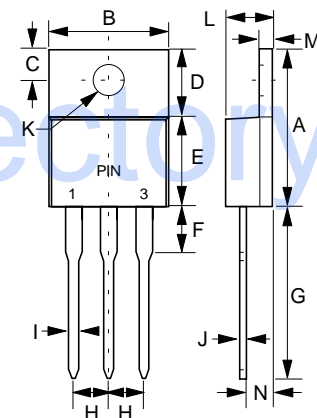
- High Surge Capability
- High Efficiency
- Low Forward Voltage
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

## Maximum Ratings

- Operating Junction Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Typical Thermal Resistance 100°C/W Junction to Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SBL2020CT	SBL2020CT	20V	14V	20V
SBL2030CT	SBL2030CT	30V	21V	30V
SBL2040CT	SBL2040CT	40V	28V	40V
SBL2050CT	SBL2050CT	50V	35V	50V
SBL2060CT	SBL2060CT	60V	42V	60V
SBL2080CT	SBL2080CT	80V	56V	80V
SBL20100CT	SBL20100CT	100V	70V	100V

## TO-220AB



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_C = 90^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.55V .75V .85V	$T_J = 25^\circ\text{C}$ $I_{FM} = 10\text{A};$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 50mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$

### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F	-----	.250	-----	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	∅
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

SBL2020CT thru SBL20100CT  
RATING AND CHARACTERISTIC CURVES

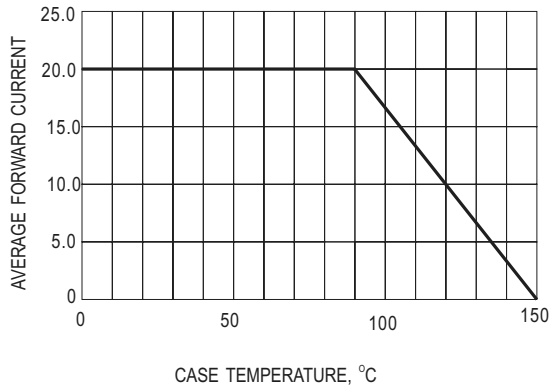


Fig.1- FORWARD CURRENT DERATING CURVE

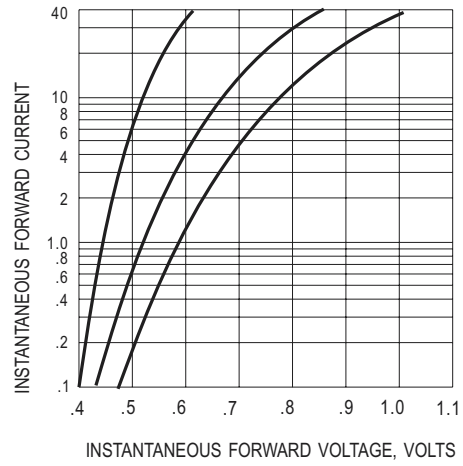


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

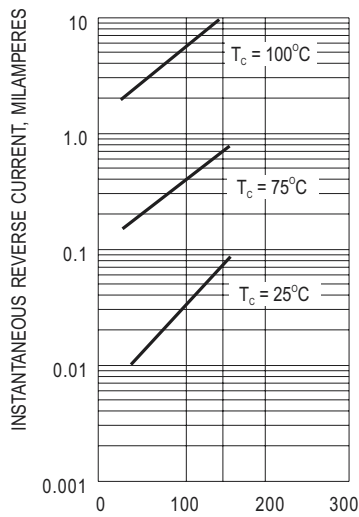


Fig.3- TYPICAL REVERSE CHARACTERISTIC

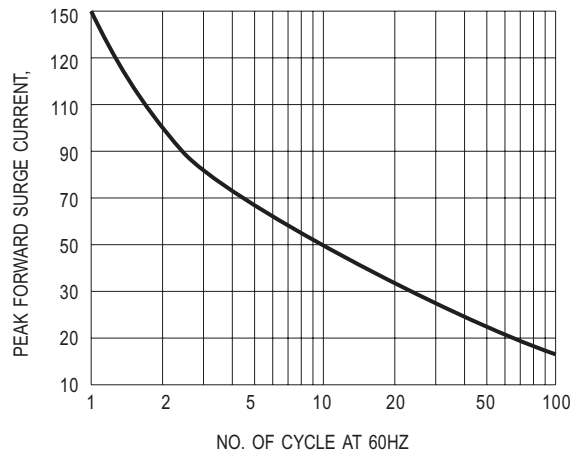


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

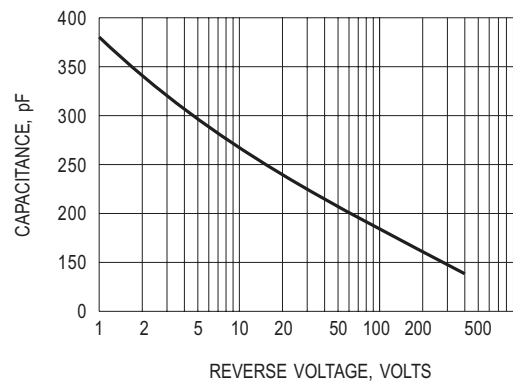


Fig.5- TYPICAL JUNCTION CAPACITANCE



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