

M·C·C·

Micro Commercial Components
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SB2020CT THRU SB20100CT

Features

- High Surge Capability
- High Efficiency
- Low Forward Voltage
- High Current Capability
- Low Power Loss

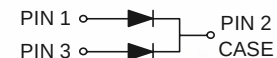
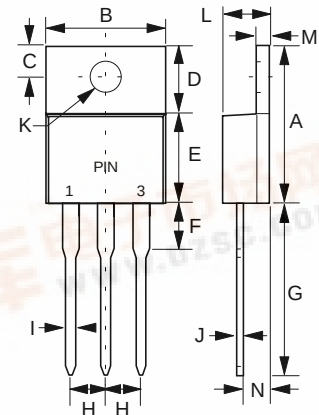
Maximum Ratings

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

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SB2020CT	SB2020CT	20V	14V	20V
SB2030CT	SB2030CT	30V	21V	30V
SB2040CT	SB2040CT	40V	28V	40V
SB2050CT	SB2050CT	50V	35V	50V
SB2060CT	SB2060CT	60V	42V	60V
SB2080CT	SB2080CT	80V	56V	80V
SB20100CT	SB20100CT	100V	70V	100V

20 Amp Schottky Barrier Rectifier 20 to 100 Volts

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 2020CT-2040CT 2050CT-2060CT 2080CT-20100CT	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	Ø
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

SB2020CT thru SB20100CT RATING AND CHARACTERISTIC CURVES

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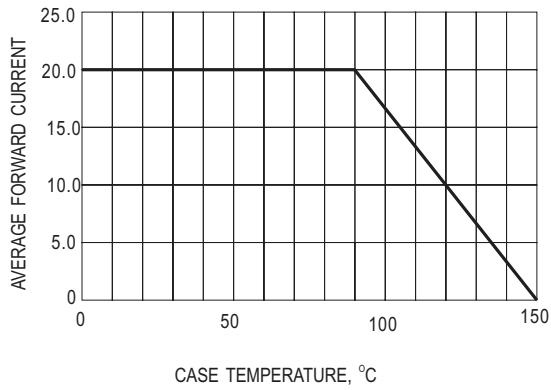


Fig.1- FORWARD CURRENT DERATING CURVE

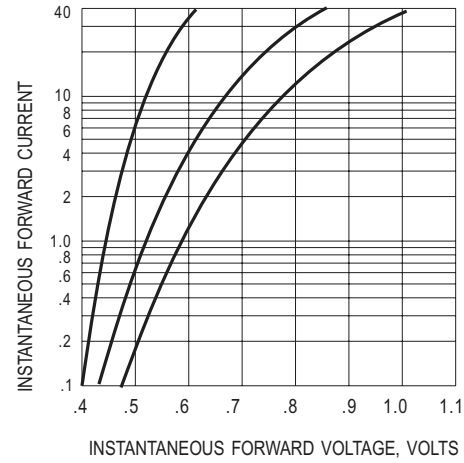


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

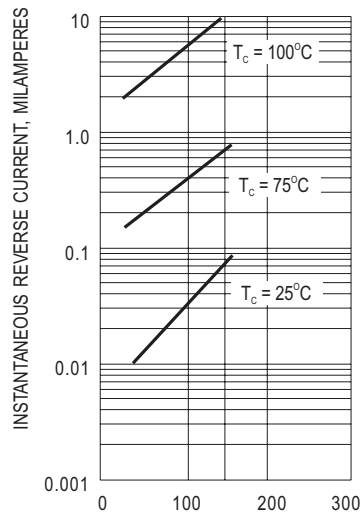


Fig.3- TYPICAL REVERSE CHARACTERISTIC

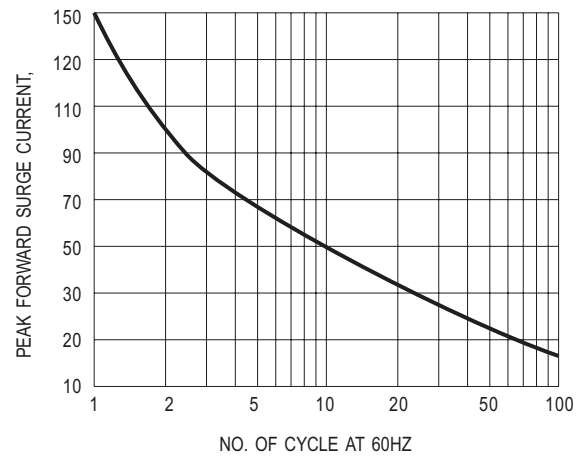


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

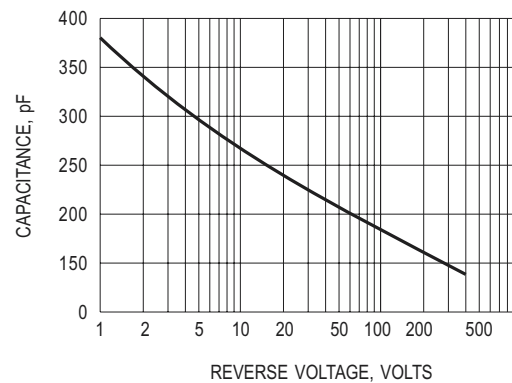


Fig.5- TYPICAL JUNCTION CAPACITANCE