

CTC B220-B2200 RECTIFIER Datasheet

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FEATURES

Metal-Semiconductor junction with guard ring

Epitaxial construction

Low forward voltage drop

High current capability

The plastic material carries UL recognition 94V-0

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

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SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 200 Volts
FORWARD CURRENT - 2.0 Ampere

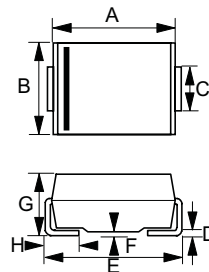
FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
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MECHANICAL DATA

- Case : SMB , molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.095 grams
- Mounting position : Any

SMB



SMB		
DIM.	MIN.	MAX.
A	4.06	4.70
B	3.30	3.94
C	1.91	2.11
D	0.15	0.31
E	5.08	5.59
F	0.05	0.20
G	2.13	2.44
H	0.76	1.52

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	B220	B230	B240	B250	B260	B280	B2100	B2150	B2200	UNIT	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	IF	2.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	50									A	
Maximum instantaneous $I_F=2A@25^\circ C$	VF	0.50			0.70		0.85		0.87	0.9	V	
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	IR	0.5 10.0					0.2 5.0				mA	
Typical Junction Capacitance	Cj	70			50		50		40	40	pF	
Typical Thermal Resistance	RθJA RθJC	80 50										°C/W
Operating Temperature Range	TJ	-55 to +125					-55 to +125				°C	
Storage Temperature Range	TSTG	-55 to +150					-55 to +150				°C	

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

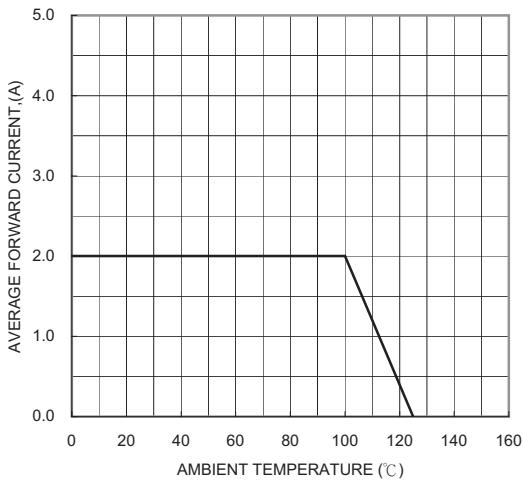


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

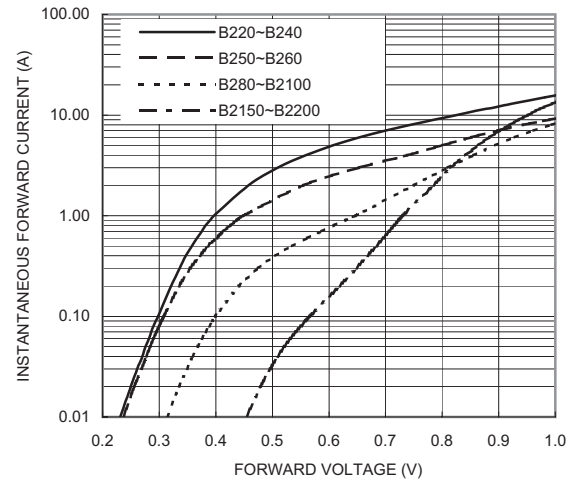


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

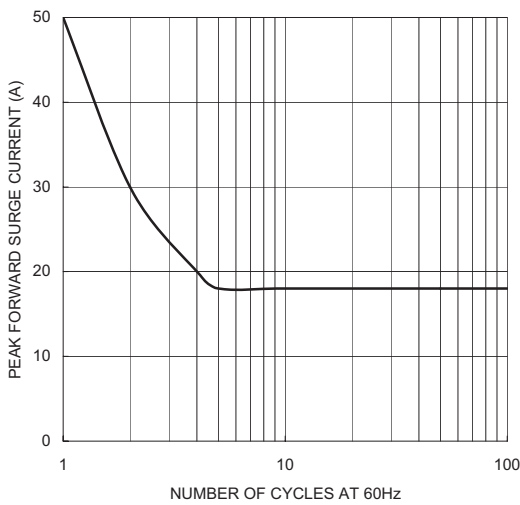


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

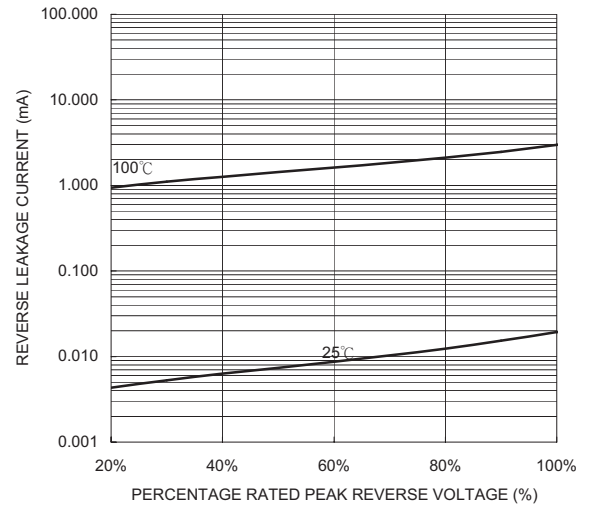


FIG. 5-TYPICAL JUNCTION CAPACITANCE

