

B320/A/B - B360/A/B

SMA

Max

2.92

4.60

1.63

0.31

5.59

0.20

1.52

2.62

Min

2.29

4.00

1.27

0.15

4.80

0.10

0.76

2.01

SMB

Max

3.94

4.57

2.21

0.31

5.59

0.20

1.52

2.62

Min

3.30

4.06

1.96

0.15

5.00

0.10

0.76

2.00

All Dimensions in mm

SMC

Max

6.22

7.11

3.18

0.31

8.13

0.20

1.52

2.62

Min

5.59

6.60

2.75

0.15

7.75

0.10

0.76

2.00

3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 100A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application

Mechanical Data

- Case: Molded Plastic
- Plastic Material UL Flammability Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solder Plated Terminal -Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please See Ordering Information, Note 5, on Page 3
- Polarity: Cathode Band
- Approx. Weight: SMA 0.064 grams
 SMB 0.093 grams
 - SMB 0.093 grams SMC 0.21 grams
- Marking: Type Number (See Page 3)

Dim

Α

В

С

D

Е

G

н

J

f

С

-D

G

F

← H →

- "A" Suffix Designates SMA Package
- "B" Suffix Designates SMB Package No Suffix Designates SMC Package
- *: Note: Device may have a semicircular indentation/ notch on one side of the device (as shown).

Maximum Ratings and Electrical Characteristics ^(a) 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	B320/A/B	B330/A/B	B340/A/B	B350/A/B	B360/A/B	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	V
Average Rectified Output Current @ $T_T = 100^{\circ}C$	lo	3.0			А		
Non-Repetitive Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100			А		
Forward Voltage (Note 3) @ I _F = 3.0A	V _{FM}		0.50		0.	70	V
Peak Reverse Current $@T_A = 25^{\circ}C$ at Rated DC Blocking Voltage (Note 3) $@T_A = 100^{\circ}C$	I _{RM}	0.5 20			mA		
Typical Capacitance (Note 2)	CT	250			pF		
Typical Thermal Resistance, Junction to Terminal (Note 1)	R _{θJT}	10		°C/W			
Typical Thermal Resistance, Junction to Ambient	R _{0JA}	50		°C/W			
Operating Temperature Range	Tj	-55 to +125		°C			
Storage Temperature Range	T _{STG}	-55 to +150			°C		

Notes: 1. Thermal Resistance: Junction to terminal, unit mounted on PC board with 5.0 mm² 0.013 mm thick) copper pad as heat sink.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. Short duration test pulse used to minimize self-heating effect.





Fig. 7 Typical Reverse Characteristics, B350/A/B thru B360/A/B

Ordering Information (Note 4 & 5)

Device*	Packaging	Shipping		
B3XXA-13	SMA	5000/Tape & Reel		
B3XXB-13	SMB	3000/Tape & Reel		
B3XX-13	SMC	3000/Tape & Reel		

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

* xx = Device type, e.g. B320A-13 (SMA package); B320B-13 (SMB package); B320-13 (SMC Package).

5. For lead free terminal plating part number, please add "-F" suffix to part number above. Example: B320A-13-F.



BXXX = Product type marking code, ex: B320 (SMC package) BXXXX = Product type marking code, ex: B320A (SMA package)) : = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52

Note: Device has a cathode band (as shown above) and may also have a cathode notch (as shown on Page 1).

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