

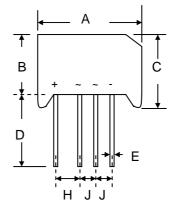
# B40C5000/3300 - B500C5000/3300



# 5.0A SINGLE-PHASE BRIDGE RECTIFIER

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- High Case Dielectric Strength
- Ideal for Printed Circuit Boards





RS-5				
Dim	Min	Max		
Α	39.40	40.50		
В	20.50	21.50		
С	21.00	22.50		
D	25.40	_		
E	0.97 Ø	1.07 Ø		
G	6.50	7.50		
Н	9.00	10.20		
J	7.20	7.60		
K	4.60	5.00		
All Dimensions in mm				

## **Mechanical Data**

Case: RS-5, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Weight: 9.8 grams (approx.)

Mounting Position: Any

Marking: Type Number

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

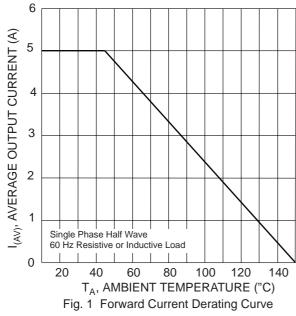
## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

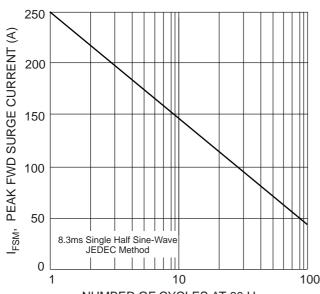
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	B40C 5000/3300	B80C 5000/3300	B125C 5000/3300	B250C 5000/3300	B380C 5000/3300	B500C 5000/3300	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	100	200	300	600	900	1000	V
Recommend Input Voltage	VRMS	40	80	125	250	380	500	V
Average Rectified Output Current @T <sub>A</sub> = 45°C (Note 1)	lo	5.0			Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250		А				
Repetitive Peak Forward Surge Current	IFRM			3	0			Α
Forward Voltage per leg @I <sub>F</sub> = 5.0A	VFM			1	.0			V
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	lr			-	0.0			μA mA
Rating for Fusing (t < 8.3ms) (Note 2)	l <sup>2</sup> t			1′	10			A <sup>2</sup> s
Typical Thermal Resistance per leg (Note 1)	$R_{\theta}$ JA			2	.6			°C/W
Operating and Storage Temperature Range	Тj, Tsтg			-55 to	+150			°C

Note: 1. Mounted on 200mm<sup>2</sup> metal chassis.

2. Non-repetitive for t > 1ms and < 8.3ms.





NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

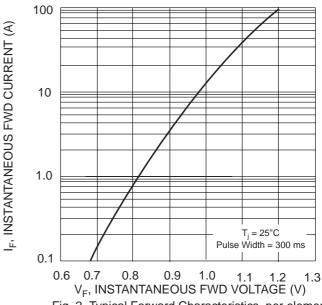


Fig. 2 Typical Forward Characteristics, per element

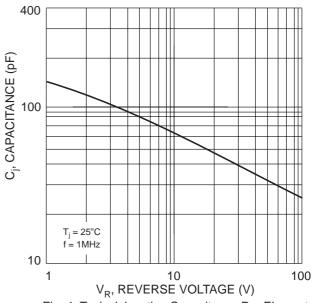
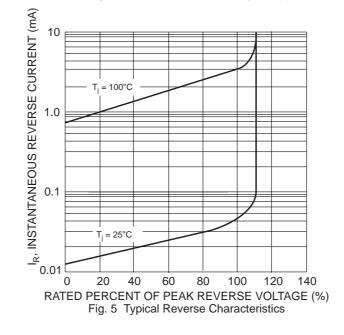
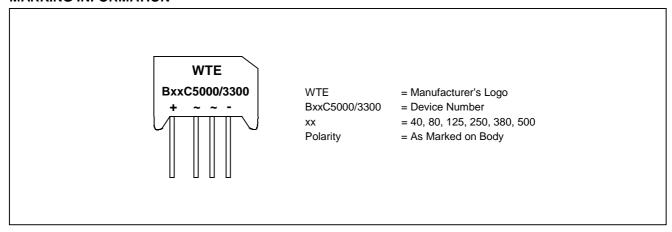


Fig. 4 Typical Junction Capacitance Per Element



## **MARKING INFORMATION**



#### **PACKAGING INFORMATION**

## **BULK**

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
230 x 230 x 56	200	500 x 255 x 275	2,000	23.0

Note: 1. Paper box, white or brown color.

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
B40C5000/3300	SIL Bridge	200 Units/Box
B80C5000/3300	SIL Bridge	200 Units/Box
B125C5000/3300	SIL Bridge	200 Units/Box
B250C5000/3300	SIL Bridge	200 Units/Box
B380C5000/3300	SIL Bridge	200 Units/Box
B500C5000/3300	SIL Bridge	200 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, B40C5000/3300-LF.

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**WARNING**: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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