

B40C5000/3300 - B500C5000/3300



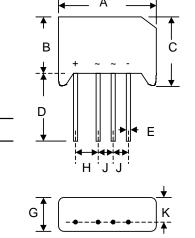
5.0A SINGLE-PHASE BRIDGE RECTIFIER

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



- 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



RS-5					
Dim	Min	Max			
Α	39.40	40.10			
В	20.20	21.00			
С	21.00	21.70			
D	25.40	_			
Е	0.97 Ø	1.07 Ø			
G	6.20	6.70			
н	9.80	10.20			
J	7.20	7.60			
Κ	4.60	5.00			
All Dimensions in mm					

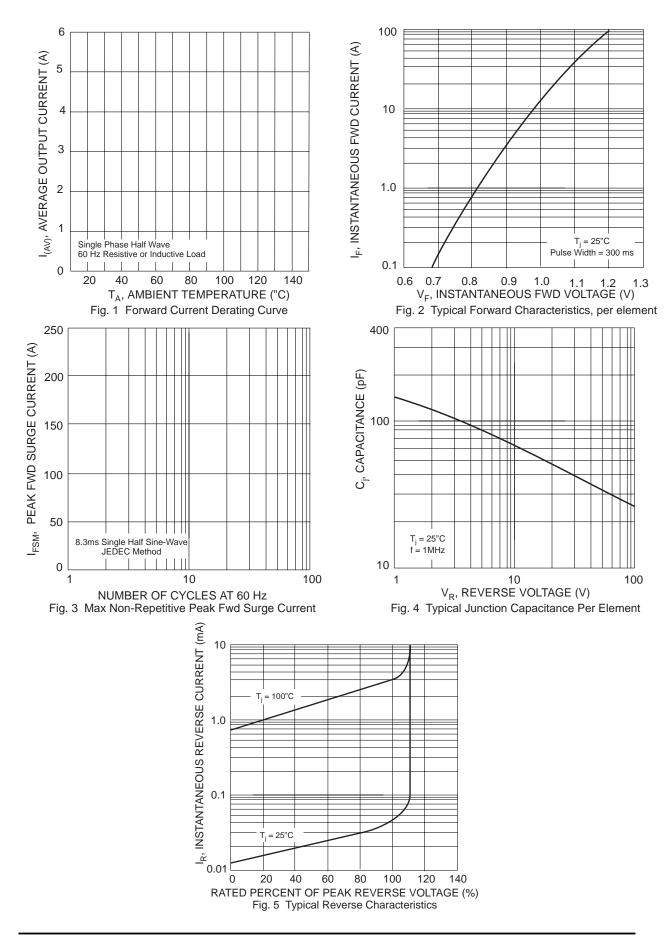
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

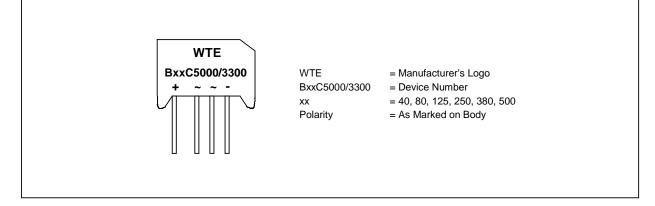
Characteristic	Symbol	B40C 5000/3300	B80C 5000/3300	B125C 5000/3300	B250C 5000/3300	B380C 5000/3300	B500C 5000/3300	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	100	200	300	600	900	1000	V
Recommend Input Voltage	VRMS	40	80	125	250	380	500	V
Average Rectified Output Current $@T_A = 45^{\circ}C$ (Note 1)	lo			5	.0			А
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			А
Forward Voltage per leg $@I_F = 5.0A$	Vfм			1	.0			V
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	IR			-	0 .0			μA mA
Rating for Fusing (t < 8.3ms) (Note 2)	l ² t	110					A ² s	
Typical Thermal Resistance per leg (Note 1)	R∂JA	2.6				°C/W		
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150					°C	

Note: 1. Mounted on 200mm² metal chassis.

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



MARKING INFORMATION



PACKAGING INFORMATION

BULK							
	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)		
	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. 1.

2. 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.

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