

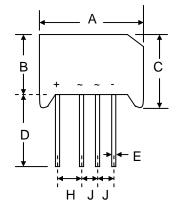
# B40C3700/2200 - B500C3700/2200

### 3.7A 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	_		
Е	0.97 Ø	1.07 Ø		
G	6.50	7.50		
H	9.00	10.20		
7	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 3700/2200	B80C 3700/2200	B125C 3700/2200	B250C 3700/2200	B380C 3700/2200	B500C 3700/2200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	200	300	600	900	1000	>
Recommend Input Voltage	VRMS	40	80	125	250	380	500	٧
Average Rectified Output Current @T <sub>A</sub> = 45°C (Note 1)	lo	3.7		А				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	150		Α				
Repetitive Peak Forward Surge Current	IFRM	20		Α				
Forward Voltage per leg @I <sub>F</sub> = 3.0A	VFM	1.0		V				
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	lгм	10 500		μA				
Rating for Fusing (Note 2)	l <sup>2</sup> t			1′	10			A <sup>2</sup> s
Thermal Resistance per leg (Note 1)	R JA	3.0		°C/W				
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150		°C				

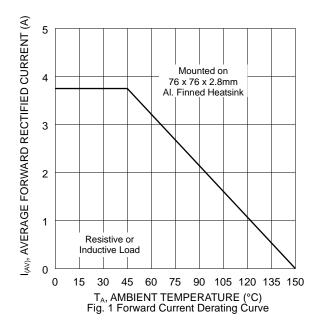
Note: 1. Mounted on 76 x 76 x 2.8mm thick Al. heatsink.

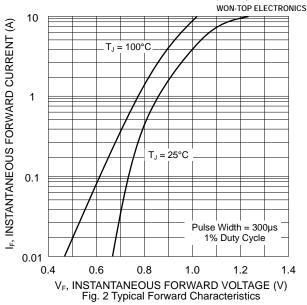
2. Non-repetitive for t > 1ms and < 8.3ms.

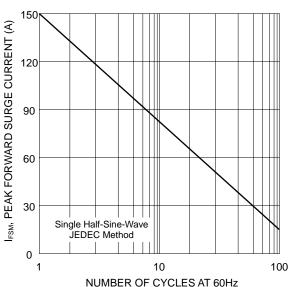
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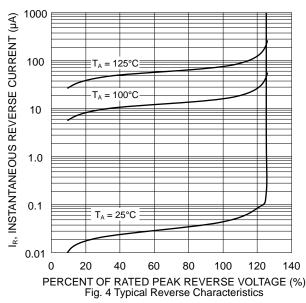
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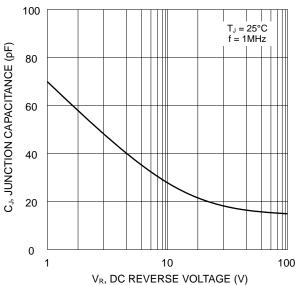








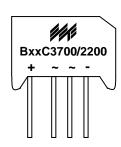
NUMBER OF CYCLES AT 60Hz Fig. 3 Forward Surge Current Derating Curve





# B40C3700/2200 - B500C3700/2200

## **MARKING INFORMATION**



BxxC3700/2200 = Device Number

xx = 40, 80, 125, 250, 380 or 500

Polarity = As Marked on Body

### **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.

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Revision: September, 2012

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#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
B40C3700/2200	SIL Bridge	200 Units/Box
B80C3700/2200	SIL Bridge	200 Units/Box
B125C3700/2200	SIL Bridge	200 Units/Box
B250C3700/2200	SIL Bridge	200 Units/Box
B380C3700/2200	SIL Bridge	200 Units/Box
B500C3700/2200	SIL Bridge	200 Units/Box

- 1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

  To order RoHS / Lead Free version (with Lead Free finish), add "-LF"
- 2. suffix to part number above. For example, B40C3700/2200-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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