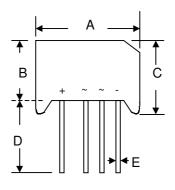


# B40C3700/2200 - B380C3700/2200

# 3.7A BRIDGE RECTIFIER

### **Features**

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



H J J

Κ

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		
K	4.60	5.00		
All Dimensions in mm				

RS-5

## **Mechanical Data**

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: As Marked on Body

• Weight: 25.3 grams (approx.)

Mounting Position: AnyMarking: Type Number

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

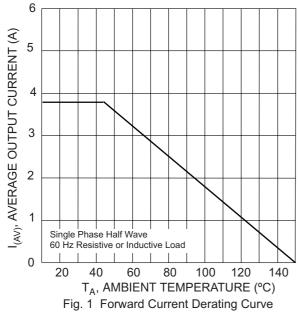
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

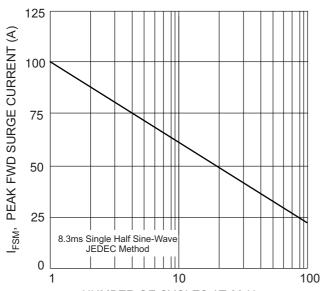
Characteristic	Symbol	B40C3700/ 2200	B80C3700/ 2200	B125C3700/ 2200	B250C3700/ 2200	B380C3700/ 2200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	200	300	600	900	٧
Recommend Input Voltage	VRMS	40	80	125	250	380	٧
Average Rectified Output Current @T <sub>A</sub> = 45°C (Note 1)	lo	3.7				Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100				А	
Repetitive Peak Forward Surge Current	İFRM	15				Α	
Forward Voltage (per element) @I <sub>F</sub> = 3.0A	VFM	1.0				٧	
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 150^{\circ}C$	lr	10 6.0			μA mA		
Rating for Fusing (t < 8.3ms) (Note 2)	l <sup>2</sup> t	50			A <sup>2</sup> s		
Typical Thermal Resistance (Note 1)	$R_{ heta}JA$	3.0				K/W	
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150				°C	

### \*Glass Passivated forms are available upon request.

Note: 1. Measured at 3"sq. x 0.11" thick AL. plate.

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





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

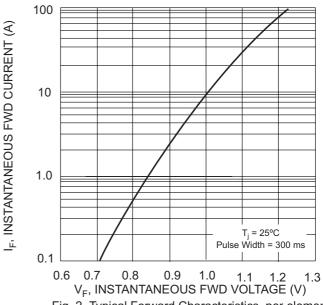


Fig. 2 Typical Forward Characteristics, per element

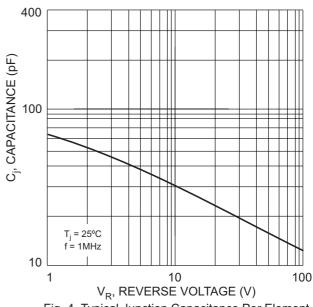
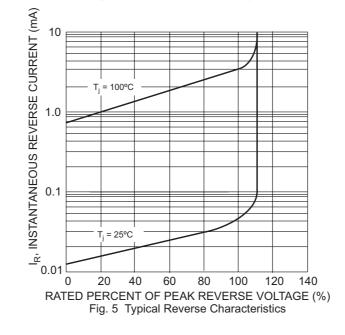


Fig. 4 Typical Junction Capacitance Per Element



### **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

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

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