

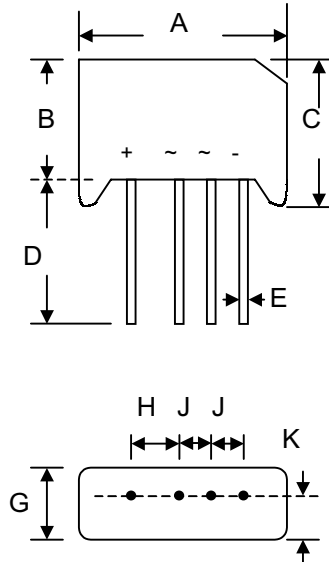
**Data Sheet 1292 Rev.A**

**Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E223064

**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: Any
- Marking: Type Number



| RS-5 |       |       |         |        |
|------|-------|-------|---------|--------|
| Dim  | Min   | Max   | Min     | Max    |
| A    | 39.40 | 40.10 | 1.55    | 1.58   |
| B    | 20.20 | 21.00 | 0.795   | 0.827  |
| C    | 21.00 | 21.70 | 0.827   | 0.854  |
| D    | 25.40 | —     | 1       | —      |
| E    | 0.97Ø | 1.07Ø | 0.038Ø  | 0.042Ø |
| G    | 6.20  | 6.70  | 0.244   | 0.264  |
| H    | 9.80  | 10.20 | 0.386   | 0.402  |
| J    | 7.20  | 7.60  | 0.283   | 0.299  |
| K    | 4.60  | 5.00  | 0.181   | 0.197  |
|      |       | In mm | In inch |        |

**Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified**

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

| Characteristic                                                                                                        | Symbol                                                 | B40C3700/<br>2200 | B80C3700/<br>2200 | B125C3700/<br>2200 | B250C3700/<br>2200 | B380C3700/<br>2200 | Unit             |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|------------------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | V <sub>RRM</sub><br>V <sub>RWM</sub><br>V <sub>R</sub> | 100               | 200               | 300                | 600                | 900                | V                |
| Recommend Input Voltage                                                                                               | V <sub>RMS</sub>                                       | 40                | 80                | 125                | 250                | 380                | V                |
| Average Rectified Output Current<br>@T <sub>A</sub> = 45°C (Note 1)                                                   | I <sub>O</sub>                                         | 3.7               |                   |                    |                    |                    | A                |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on<br>rated load (JEDEC Method) | I <sub>FSM</sub>                                       | 100               |                   |                    |                    |                    | A                |
| Repetitive Peak Forward Surge Current                                                                                 | I <sub>FRM</sub>                                       | 15                |                   |                    |                    |                    | A                |
| Forward Voltage (per element) @I <sub>F</sub> = 3.0A                                                                  | V <sub>FM</sub>                                        | 1.0               |                   |                    |                    |                    | V                |
| Peak Reverse Current @T <sub>C</sub> = 25°C<br>At Rated DC Blocking Voltage @T <sub>C</sub> = 150°C                   | I <sub>R</sub>                                         | 10<br>6.0         |                   |                    |                    |                    | µA<br>mA         |
| Rating for Fusing (t < 8.3ms) (Note 2)                                                                                | I <sup>2</sup> <sub>t</sub>                            | 50                |                   |                    |                    |                    | A <sup>2</sup> s |
| Typical Thermal Resistance (Note 1)                                                                                   | R <sub>θJA</sub>                                       | 3.0               |                   |                    |                    |                    | K/W              |
| Operating and Storage Temperature Range                                                                               | T <sub>J</sub> , T <sub>STG</sub>                      | -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.

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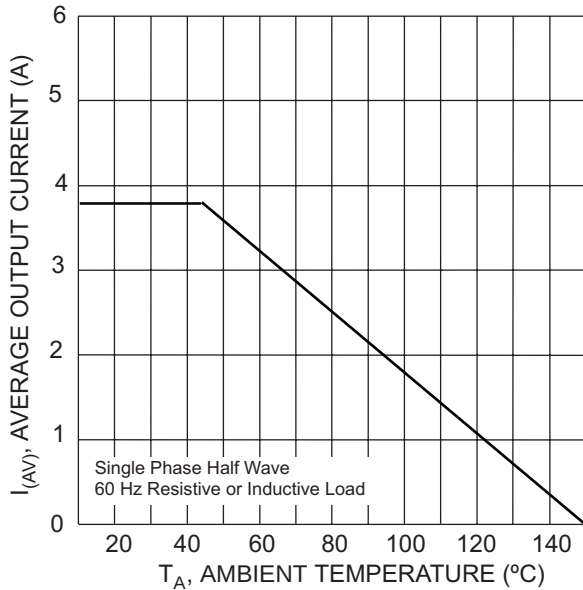


Fig. 1 Forward Current Derating Curve

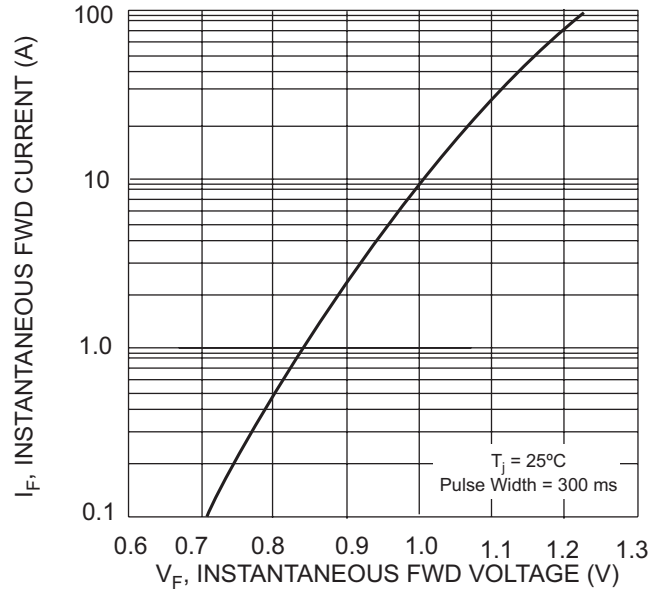


Fig. 2 Typical Forward Characteristics, per element

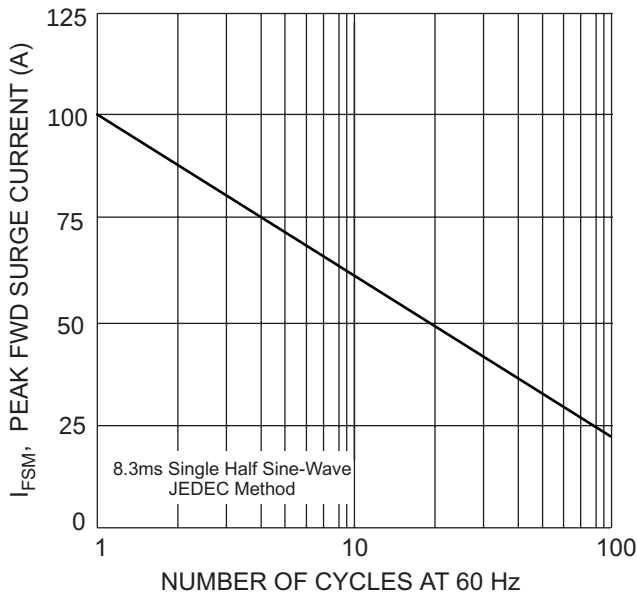


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

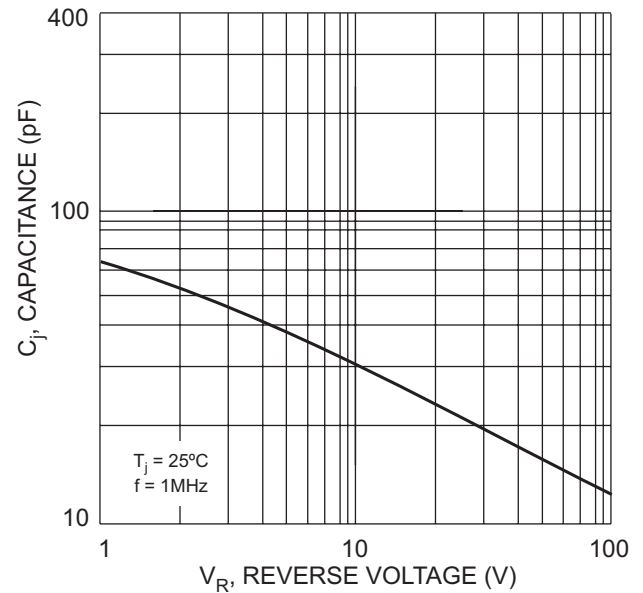


Fig. 4 Typical Junction Capacitance Per Element

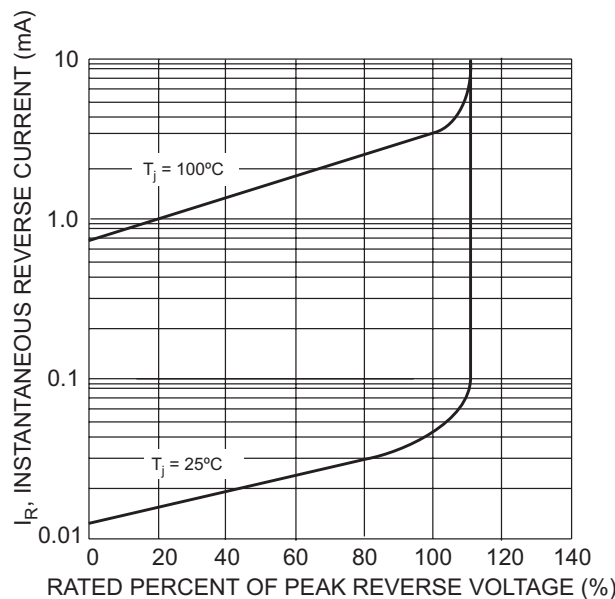


Fig. 5 Typical Reverse Characteristics