



Micro Commercial Components



Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

**3GBJ3508**  
**3GBJ3510**  
**3GBJ3516**

## Features

- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High surge forward current capability
- Glass passivated chip
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

**35 Amp**  
**Bridge Rectifier**  
**800~1600 Volts**

## Maximum Ratings

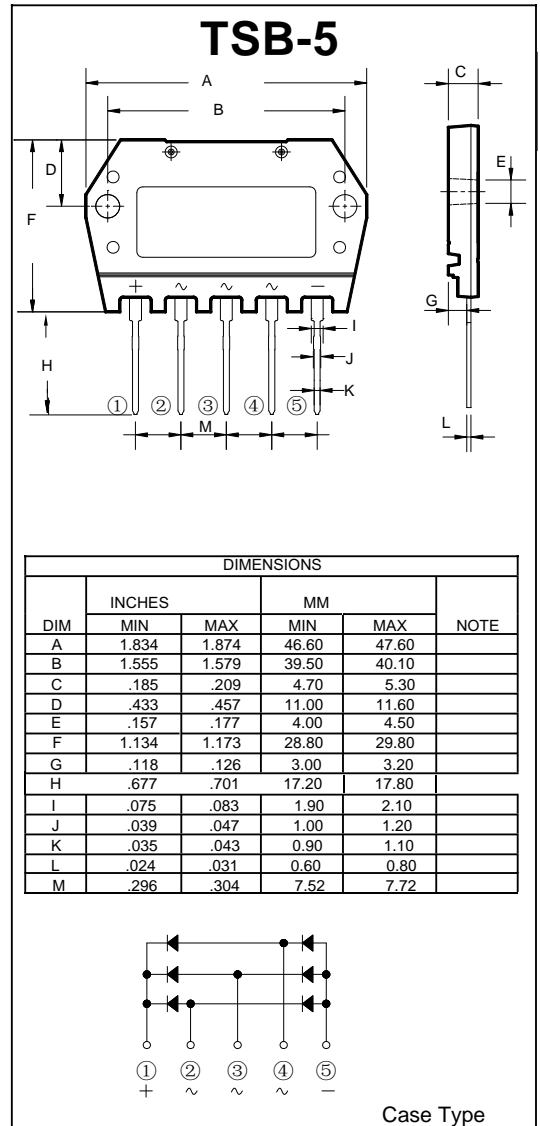
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| 3GBJ3508           | 3GBJ3508       | 800V                                   | 560V                | 800V                        |
| 3GBJ3510           | 3GBJ3510       | 1000V                                  | 700V                | 1000V                       |
| 3GBJ3516           | 3GBJ3516       | 1600V                                  | 1120V               | 1600V                       |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |            |                     |                           |
|---|------------|---------------------|---------------------------|
| Average Rectified Output Current                        | $I_O$      | 35 A                | $T_C = 110^\circ\text{C}$ |
| Peak Forward Surge Current                              | $I_{FSM}$  | 400A                | 60 Hz, sine wave          |
| Maximum Instantaneous Forward Voltage                   | $V_F$      | 1.10V               | $I_{FM} = 17.5 \text{ A}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$      | 10 $\mu\text{A}$    | $T_a = 25^\circ\text{C}$  |
| Dielectric Strength                                     | $V_{dis}$  | 2.5KV               |                           |
| Max.Mounting Torque                                     | $T_{or}$   | 8 kg • cm           | Recommend torque 5kg • cm |
| Current Squared time                                    | $I^2t$     | 660A <sup>2</sup> S | $t < 8.3\text{ms}$        |
| Thermal Resistance                                      | $R_{thJC}$ | 0.8°C/W             |                           |

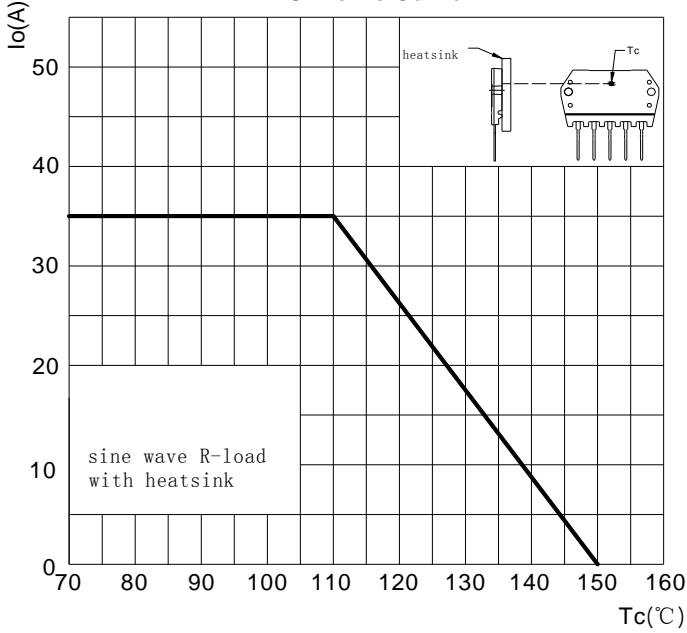
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7



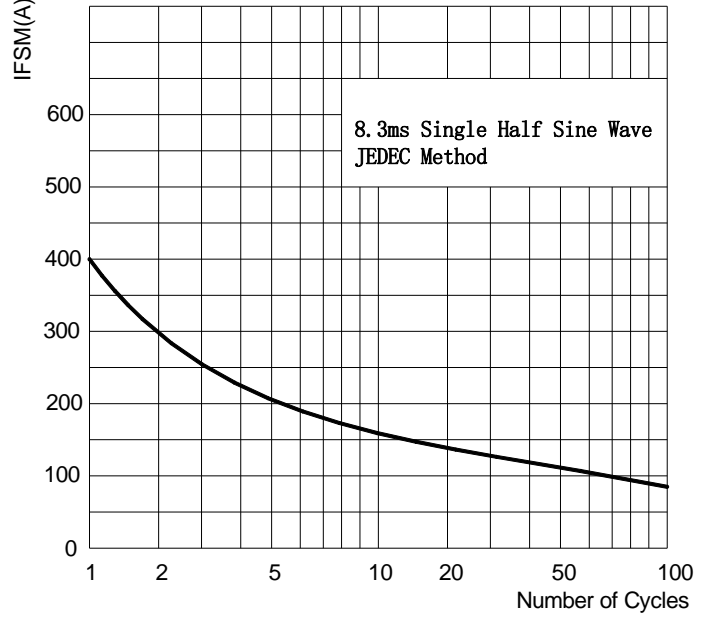
[www.mccsemi.com](http://www.mccsemi.com)

**Characteristics(Typical)**

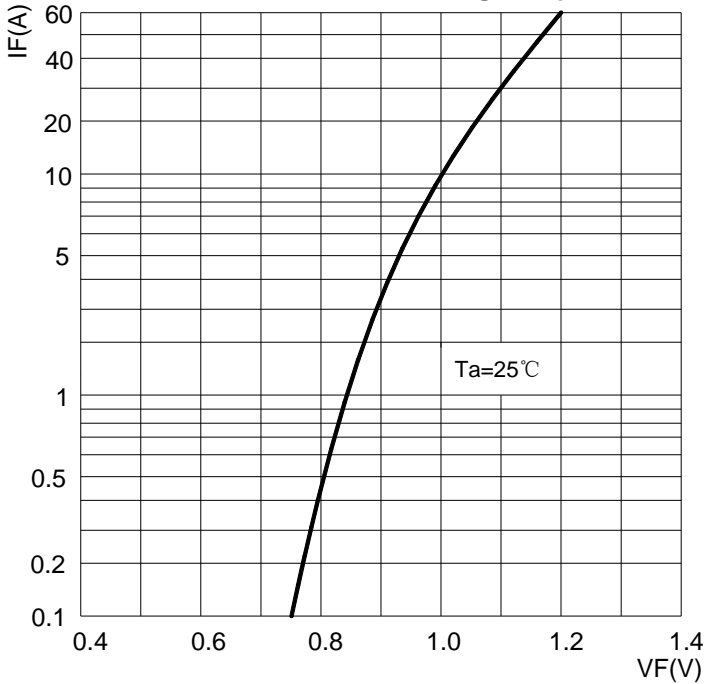
**FIG1:Io-Tc Curve**



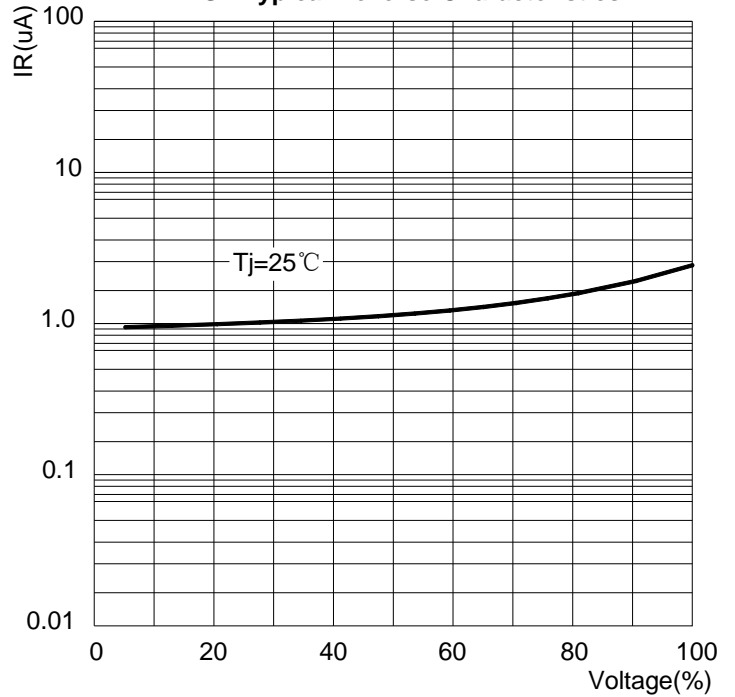
**FIG2: Forward Surge Current Capability**



**FIG3: Forward Voltage Drop**



**FIG4: Typical Reverse Characteristics**





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### Ordering Information :

| Device         | Packing                    |
|----------------|----------------------------|
| Part Number-BP | Bulk: 96pcs/Box;960pcs/Ctn |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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