DBF40G

4.0A Single-Phase Bridge Rectifier



Features

- Glass passivation for high reliability
- · Plastic molded structure
- Peak reverse voltage : VRM=600V
- Average output current : IO=4.0A

Specifications

Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | Conditions | Value | Unit |
|------------------------|--------|---|-------------|------|
| Peak Reverse Voltage | VRM | | 600 | V |
| Average Output Current | IO | Tc=108°C,with 80×80×1.5mm ³ Al fin | 4.0 | А |
| | | Ta=25°C,without fin | 2.3 | А |
| Surge Forward Current | IFSM | 50Hz sine wave, 1cycle | 80 | А |
| Junction Temperature | Tj | | 150 | °C |
| Storage Temperature | Tstg | | -40 to +150 | °C |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

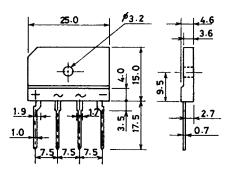
Electrical Characteristics at Ta=25°C

| Parameter | Symbol | Conditions | Value | | | Unit |
|--------------------------------------|----------|---------------------------------|-------|-----|------|--------|
| | | | min | typ | max | |
| Forward Voltage | VF | IF=2.0A | | | 1.05 | V |
| Reverse Current | IR | V _R =V _{RM} | | | 10 | μΑ |
| Thremal Resistance(Junction-Ambient) | Rth(j-a) | Without fin | | | 30 | °C / W |
| Thremal Resistance(Junction-Case) | Rth(j-c) | With AI fin | | | 5.5 | °C / W |

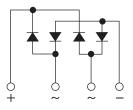
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Package Dimensions

unit:mm(typ.)

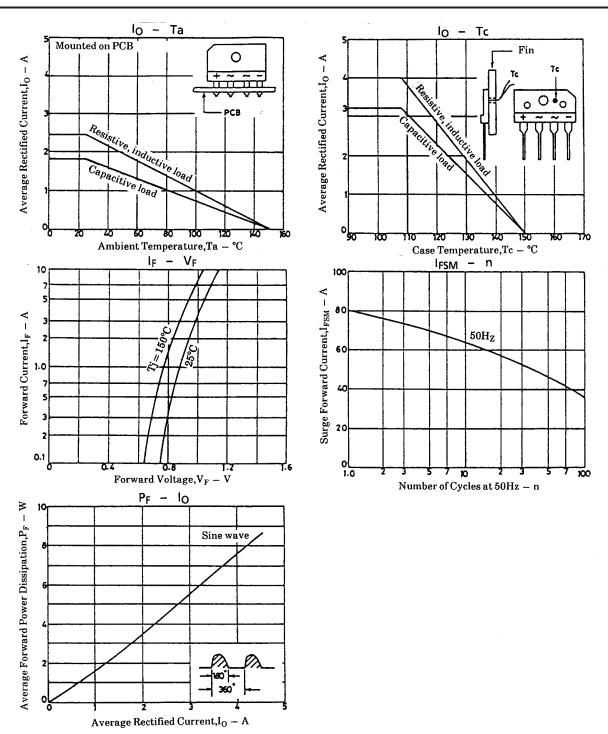


Electrical Connection



Ordering Information

| Device | Shipping | memo |
|--------|--------------|---------|
| DBF40G | 250 pcs./box | Pb-Free |



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