



# DBA100G

## 10.0A Single-Phase Bridge Rectifier

ON Semiconductor®

<http://onsemi.com>

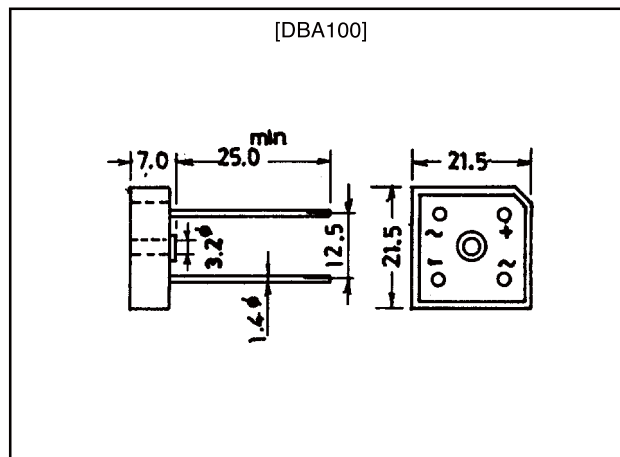
### Features

- Plastic molded structure.
- Glass passivation for high reliability.
- Peak reverse voltage:  $V_{RM}=200, 600V$ .
- Average rectified current:  $I_O=10.0A$ .

### Package Dimensions

unit:mm

1090



### Specifications

#### Absolute Maximum Ratings at $T_a = 25^\circ C$

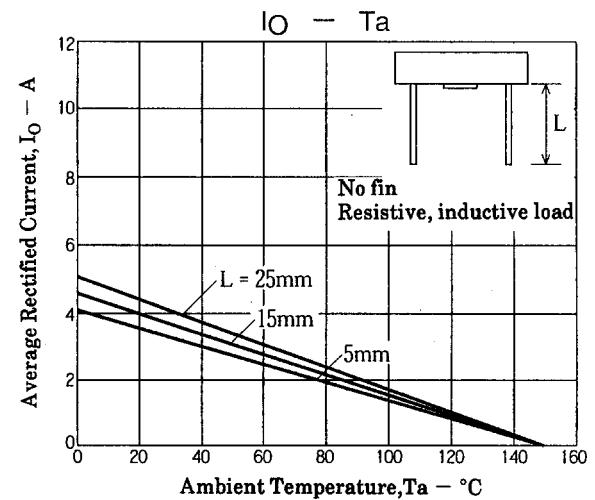
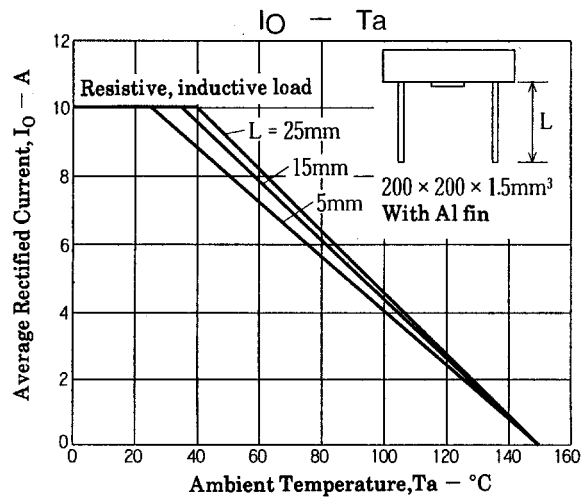
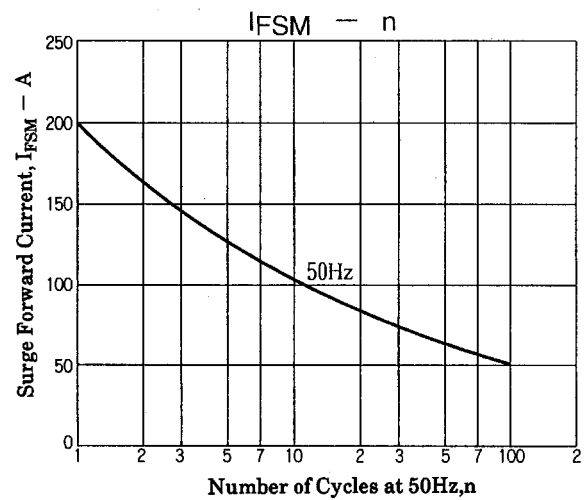
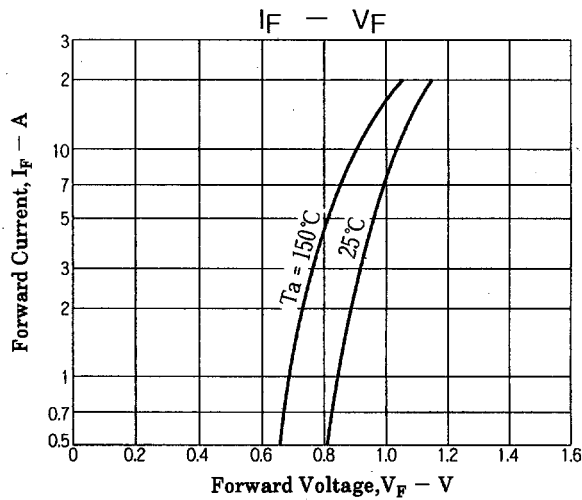
| Parameter                 | Symbol    | Conditions                                                     | <del>DBA100G</del> | DBA100G     | Unit       |
|---------------------------|-----------|----------------------------------------------------------------|--------------------|-------------|------------|
| Peak Reverse Voltage      | $V_{RM}$  |                                                                | 200                | 600         | V          |
| Average Rectified Current | $I_O$     | $T_a=40^\circ C$                                               | →                  | 3.7         | A          |
|                           |           | $T_a=40^\circ C$ , with $200 \times 200 \times 1.5mm^3$ Al fin | →                  | 10.0        | A          |
| Surge Forward Current     | $I_{FSM}$ |                                                                | →                  | 200         | A          |
| Junction Temperature      | $T_j$     |                                                                | →                  | 150         | $^\circ C$ |
| Storage Temperature       | $T_{stg}$ |                                                                | →                  | -30 to +150 | $^\circ C$ |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

#### Electrical Characteristics at $T_a = 25^\circ C$ , per constituent element of bridge

| Parameter       | Symbol | Conditions               | Ratings |     |      | Unit    |
|-----------------|--------|--------------------------|---------|-----|------|---------|
|                 |        |                          | min     | typ | max  |         |
| Forward Voltage | $V_F$  | $I_F=5.0A$               |         |     | 1.05 | V       |
| Reverse Current | $I_R$  | $V_R$ : At each $V_{RM}$ |         |     | 10   | $\mu A$ |

Note: Mounting torque:  $0.49N \cdot m$  max.



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