



# DBF60G

## 6.0A Single-Phase Bridge Rectifier

ON Semiconductor®

<http://onsemi.com>

### Features

- Glass passivation for high reliability
- Plastic molded structure
- Peak reverse voltage :  $V_{RM}=600V$
- Average output current :  $I_O=6.0A$

### Specifications

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

Parameter	Symbol	Conditions	Value	Unit
Peak Reverse Voltage	$V_{RM}$		600	V
Average Output Current	$I_O$	$T_c=110^\circ C$ , with $125 \times 125 \times 1.5mm^3$ Al fin	6.0	A
		$T_a=25^\circ C$ , without fin	2.8	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	120	A
Junction Temperature	$T_j$		150	$^\circ C$
Storage Temperature	$T_{stg}$		-40 to +150	$^\circ C$

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.

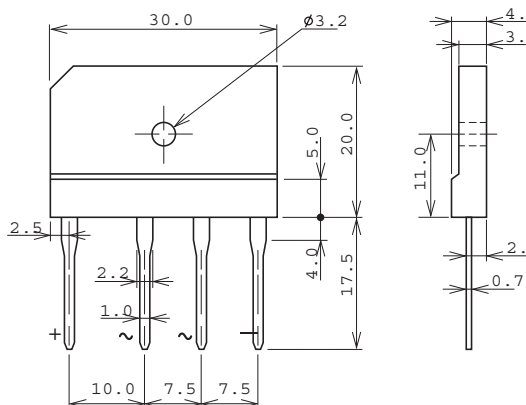
#### Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=2.5A$			1.05	V
Reverse Current	$I_R$	$V_R=V_{RM}$			10	$\mu A$
Thermal Resistance(Junction-Ambient)	$R_{th(j-a)}$	Without fin			26	$^\circ C / W$
Thermal Resistance(Junction-Case)	$R_{th(j-c)}$	With Al fin			3.4	$^\circ C / W$

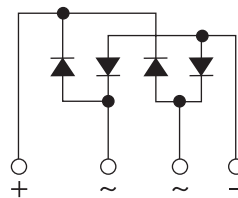
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

### Package Dimensions

unit:mm(typ.)



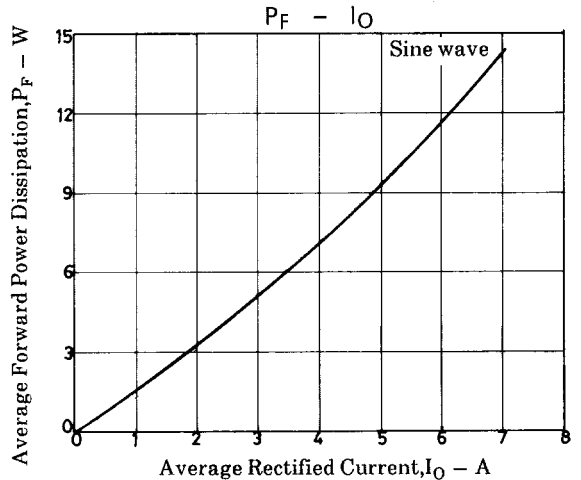
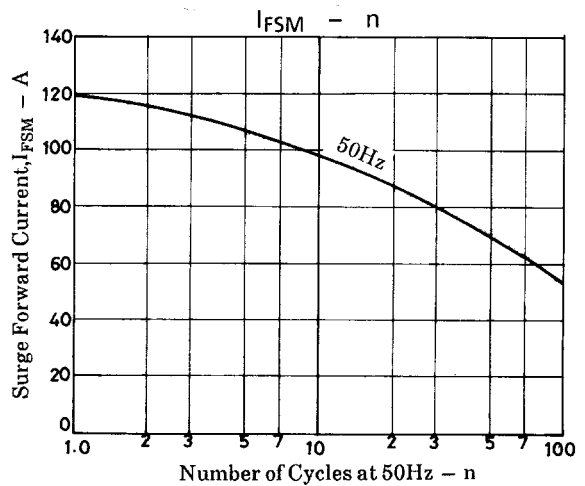
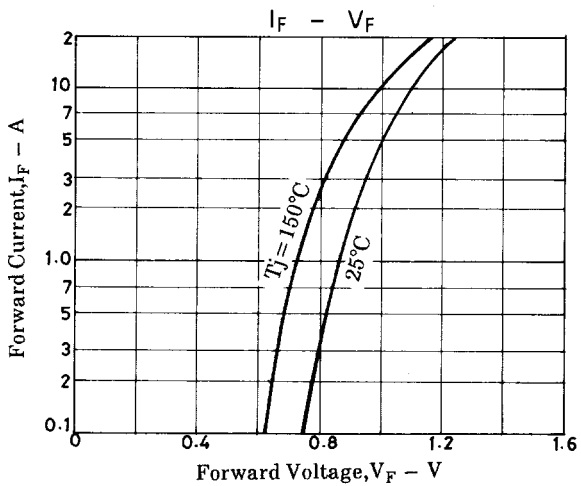
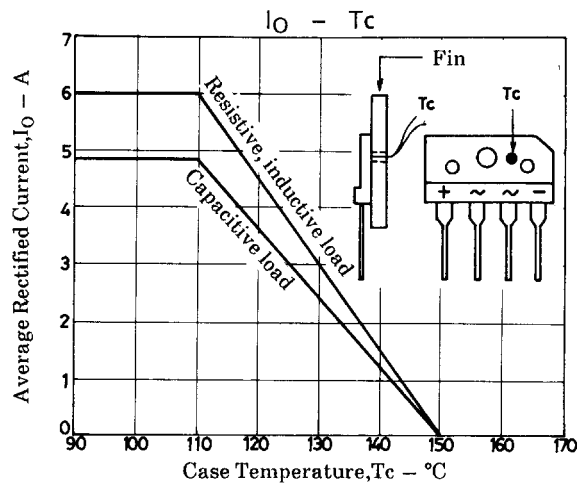
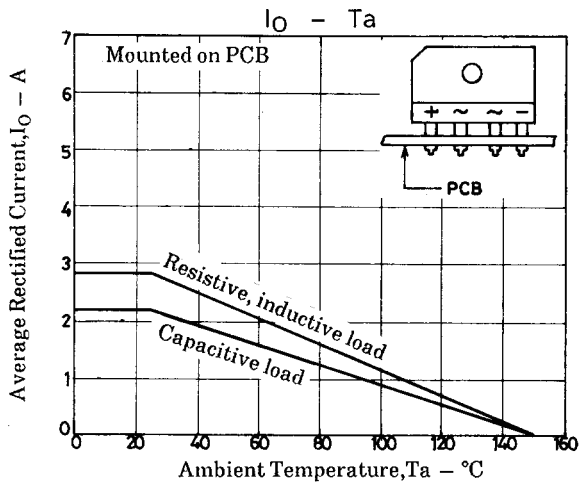
### Electrical Connection



### Ordering Information

Device	Shipping	memo
DBF60G	250 pcs./box	Pb-Free

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