



**DBF60**

## Silicon Diffused Junction Type

## 6.0A Single-Phase Bridge Rectifier

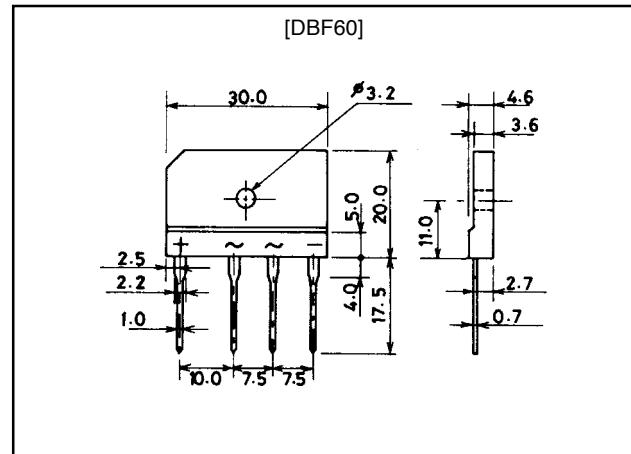
## Features

- Glass passivation for high reliability.
- Plastic molded structure.
- Peak reverse voltage:  $V_{RM}=200, 600V$ .
- Average rectified current:  $I_O=6.0A$ .

## Package Dimensions

unit:mm

1191



## Specifications

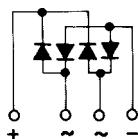
### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	DBF60C	DBF60G	Unit
Peak Reverse Voltage	$V_{RM}$		200	600	V
Average Rectified Current	$I_O$	Tc=110°C, with 125×125×1.5mm <sup>3</sup> Al fin	→	6	A
		Ta=25°C, without fin	→	2.8	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	→	120	A
Junction Temperature	$T_j$		→	150	°C
Storage Temperature	$T_{stg}$		→	-40 to +150	°C

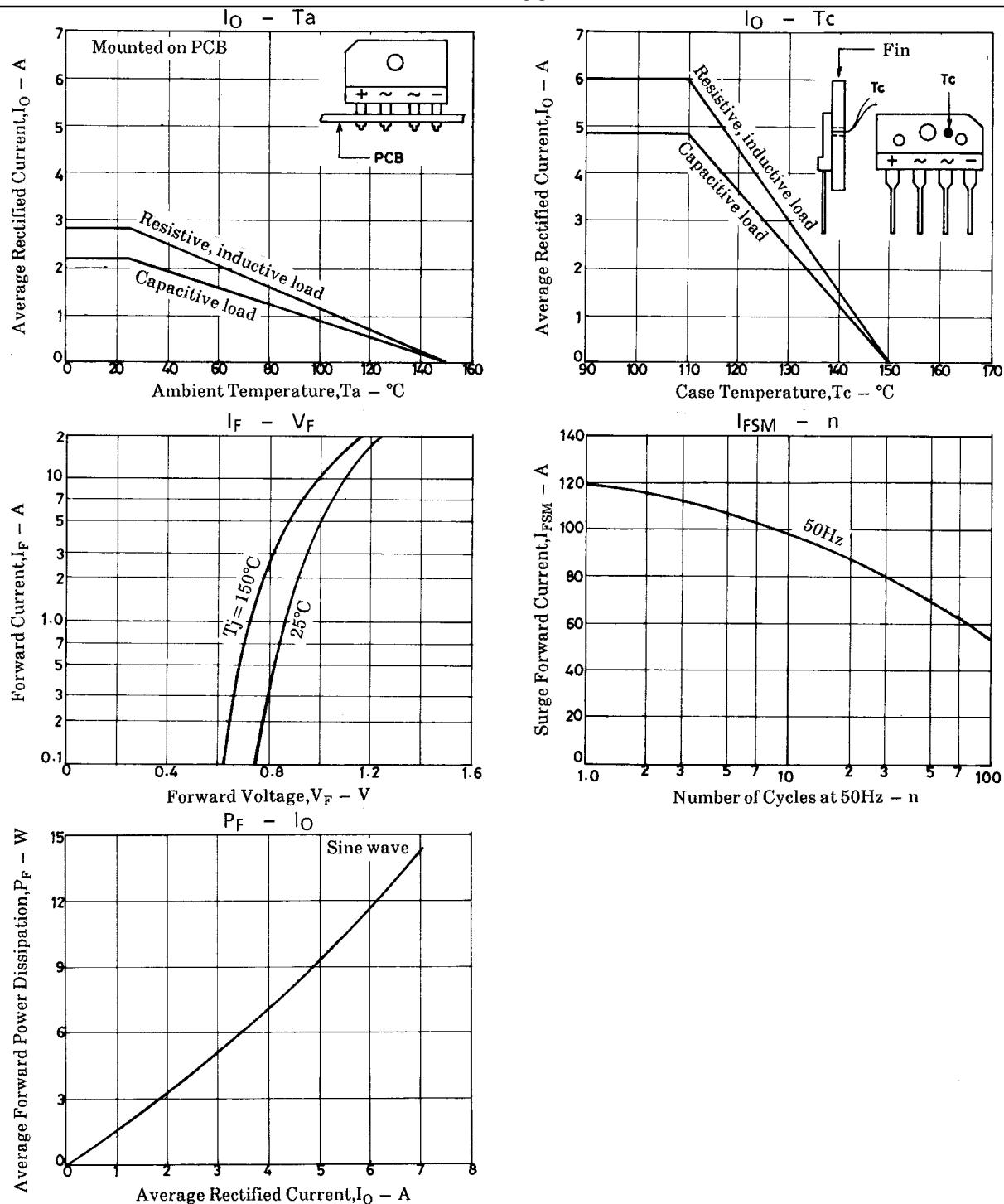
### **Electrical Characteristics at $T_a = 25^\circ\text{C}$ , per constituent element of bridge.**

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=2.5A$			1.05	V
Reverse Current	$I_R$	$V_R$ :At each $V_{RM}$			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	$^{\circ}C/W$

## Electrical Connection



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