

**DBF60T** 

**Silicon Diffused Junction Type** 

# 6.0A Single-Phase Bridge Rectifier

### **Applications**

· For primary rectification as switching regulator.

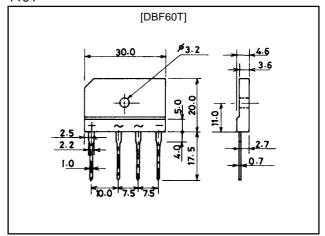
### **Features**

- $\cdot$  High reliability attained glass passivation.
- · High surge.
- · Plastic molded structure.
- $\cdot$  Peak reverse voltage:  $V_{RM}$ =200 to 600V.
- · Average rectified current:I<sub>O</sub>=6.0A.

## **Package Dimensions**

unit:mm

1191



### **Specifications**

### Absolute Maximum Ratings at Ta = 25°C

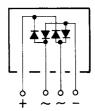
Parameter	Symbol	Conditions	DBF60TC	DBF60TE	DBF60TG	Unit
Peak Reverse Voltage	V <sub>RM</sub>		200	400	600	V
Average Rectified Current	lo	Tc=110°C, with 125×125×1.5mm³ AI fin	$\rightarrow$	$\rightarrow$	6.0	Α
		Ta=25°C, without fin	$\rightarrow$	$\rightarrow$	2.8	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	$\rightarrow$	$\rightarrow$	170	Α
Junction Temperature	Tj		$\rightarrow$	$\rightarrow$	150	°C
Storage Temperature	Tstg		$\rightarrow$	$\rightarrow$	-40 to +150	°C

### **Electrical Characteristics** at Ta = 25°C, per constituent element of bridge.

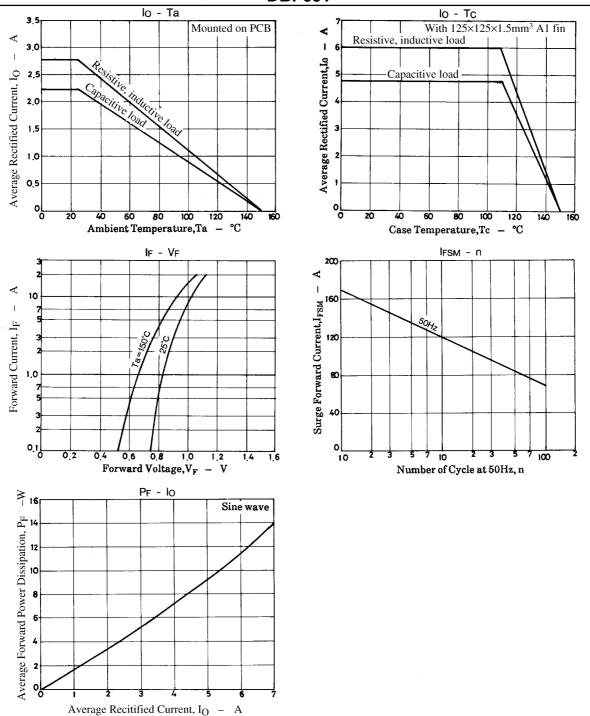
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =2.5A			1.05	V
Reverse Current	$I_{R}$	V <sub>R</sub> :At each V <sub>RM</sub>			10	μA
Thermal Resistance (Junction-Ambient)	Rth(j-a)	Without fin			26	°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)	With Al fin			3.4	°C/W

Note: Moutning torque: 5kg·cm max

#### **Electrical Connection**



### **DBF60T**



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