

DBF20T

Silicon Diffused Junction Type

# 2.0A Single-Phase Bridge Rectifier

## **Applications**

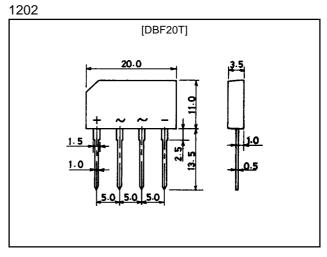
 $\cdot$  For primary rectification as switching regulator.

### **Features**

- · High reliability attained glass passivation.
- · High surge.
- · Plastic molded structure.
- $\cdot$  Peak reverse voltage:V<sub>RM</sub>=200 to 600V.
- · Average rectified current:  $I_0 = 2.0 A$ .

## Package Dimensions

unit:mm



## **Specifications**

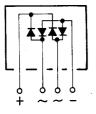
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	DBF20TC	DBF20TE	DBF20TG	Unit
Peak Reverse Voltage	VRM		200	400	600	V
Average Rectified Current	IO	Tc=114°C, with 50×50×1.5mm <sup>3</sup> AI fin	$\rightarrow$	$\rightarrow$	2.0	А
		Ta=25°C, without fin	$\rightarrow$	$\rightarrow$	1.5	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	$\rightarrow$	$\rightarrow$	80	А
Junction Temperature	Tj		$\rightarrow$	$\rightarrow$	150	°C
Storage Temperature	Tstg		$\rightarrow$	$\rightarrow$	-40 to +150	°C

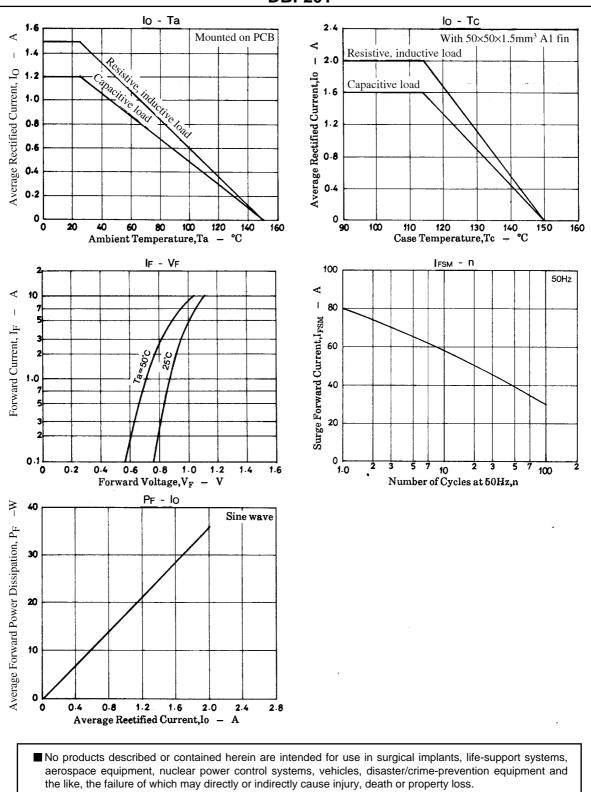
### **Electrical Characteristics** at Ta = 25°C, per constituent element of bridge.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =0.75A			1.05	V
Reverse Current	IR	V <sub>R</sub> :At each V <sub>RM</sub>			10	μA
Thermal Resistance (Junction-Ambient)	Rth(j-a)	Without fin			50	°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)	With AI fin			10	°C/W

#### **Electrical Connection**



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