

DBF20

Silicon Diffused Junction Type

2.0A Single-Phase Bridge Rectifier

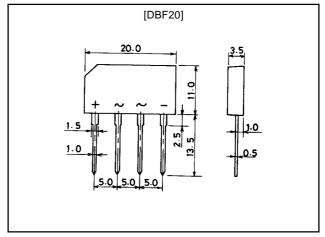
Features

- · Glass passivation for high reliability.
- · Plastic molded structure.
- · Peak reverse voltage: V_{RM}=100 to 600V.
- · Average rectified current:I_O=2.0A.

Package Dimensions

unit:mm

1202



Specifications

Absolute Maximum Ratings at Ta = 25°C

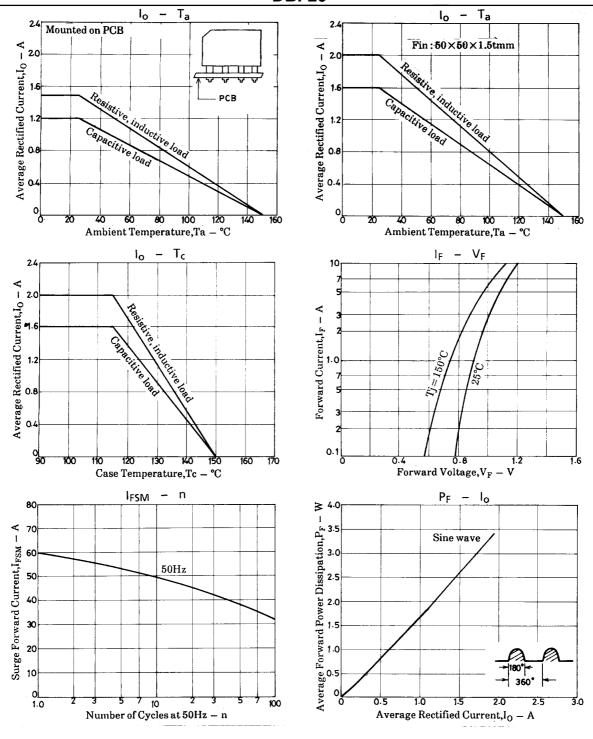
Parameter	Symbol	Conditions	DBF20B	DBF20C	DBF20E	DBF20G	Unit
Peak Reverse Voltage	V _{RM}		100	200	400	600	V
Average Rectified Current	IO	Tc=114°C, with 50×50×1.5mm³ AI fin	\rightarrow	\rightarrow	\rightarrow	2.0	Α
		Ta=25°C, without fin	\rightarrow	\rightarrow	\rightarrow	1.5	Α
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	\rightarrow	\rightarrow	\rightarrow	60	Α
Junction Temperature	Tj		\rightarrow	\rightarrow	\rightarrow	150	°C
Storage Temperature	Tstg		\rightarrow	\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	Offic
Forward Voltage	VF	I _F =0.75A			1.05	V
Reverse Current	I _R	V _R :At each V _{RM}			10	μΑ
Thermal Resistance (Junction-Ambient)	Rth(j-a)	Without fin			75	°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)	With Al fin			10	°C/W

Electrical Connection





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