

DBF40T

Silicon Diffused Junction Type

4.0A Single-Phase Bridge Rectifier

Applications

· For primary rectification as switching regulator.

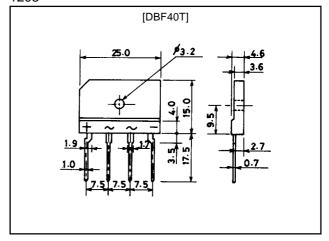
Features

- \cdot High reliability attained glass passivation.
- · High surge.
- · Plastic molded structure.
- \cdot Peak reverse voltage:V $_{RM}\!\!=\!\!200$ to 600V.
- · Average rectified current:I_O=4.0A.

Package Dimensions

unit:mm

1203



Specifications

Absolute Maximum Ratings at Ta = 25°C

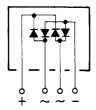
Parameter	Symbol	Conditions	DBF40TC	DBF40TE	DBF40TG	Unit
Peak Reverse Voltage	V _{RM}		200	400	600	V
Average Rectified Current	lo	Tc=108°C, with 80×80×1.5mm³ AI fin	\rightarrow	\rightarrow	4.0	Α
		Ta=25°C, without fin	\rightarrow	\rightarrow	2.3	Α
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	\rightarrow	\rightarrow	120	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.

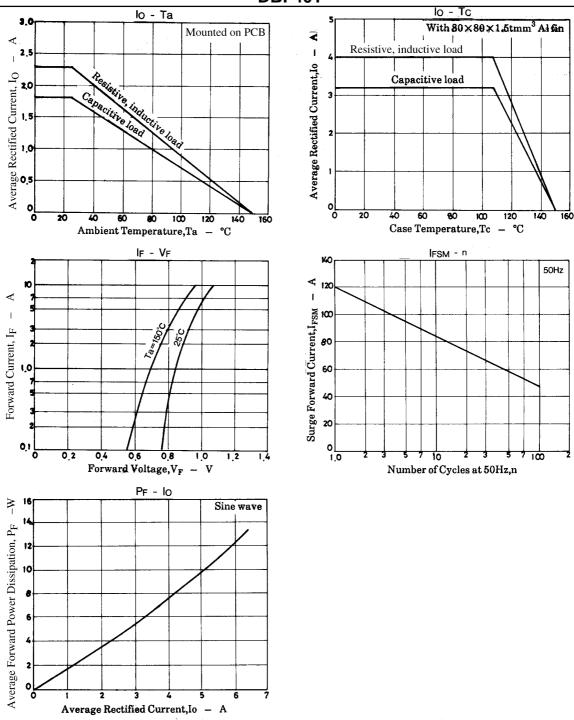
Parameter	Symbol	Conditions	Ratings			Unit
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Forward Voltage	V _F	I _F =2.0A			1.05	V
Reverse Current	IR	V _R :At each V _{RM}			10	μΑ
Thermal Resistance (Junction-Ambient)	Rth(j-a)	Without fin			30	°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)	With Al fin			5.5	°C/W

Note: Moutning torque: 5kg·cm max

Electrical Connection



DBF40T



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