Ordering number:EN2797A

DBF40

Silicon Diffused Junction Type

4.0A Single-Phase Bridge Rectifier

Features

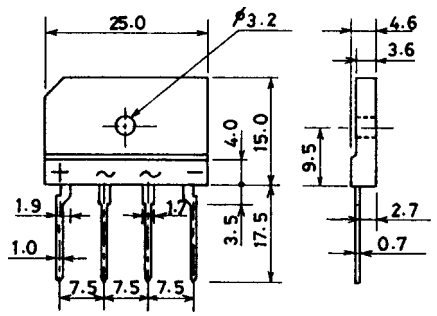
- Glass passivation for high reliability.
- Plastic molded structure.
- Peak reverse voltage:V_{RM}=200, 600V.
- Average rectified current:I_O=4.0A.

Package Dimensions

unit:mm

1203

[DBF40]



Specifications

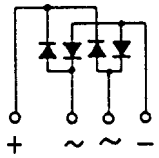
Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	~~DBF40C~~	DBF40G	Unit
Peak Reverse Voltage	V_{RM}		200	600	V
Average Rectified Current	I_O	Tc=108˚C, with 80×80×1.5mm³ Al fin	→	4.0	A
		Ta=25˚C, without fin	→	2.3	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	80	A
Junction Temperature	Tj		→	150	˚C
Storage Temperature	Tstg		→	–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	V_F	I_F=2.0A			1.05	V
Reverse Current	I_R	V_R:At each V_{RM}			10	μA
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

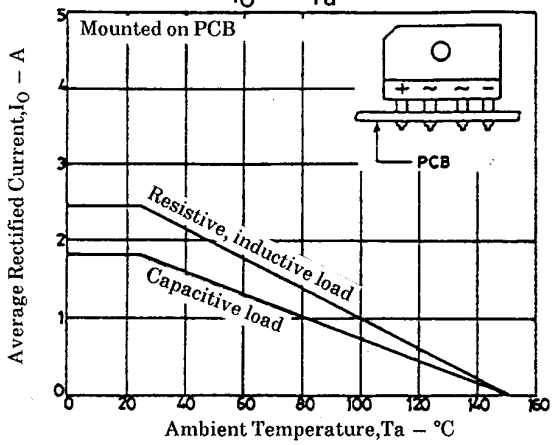
Electrical Connection



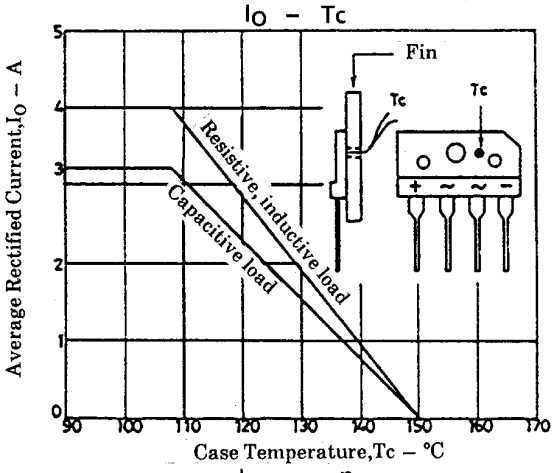
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters

TOKYO OFFICE, Tokyo Bldg., 1-10 , Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

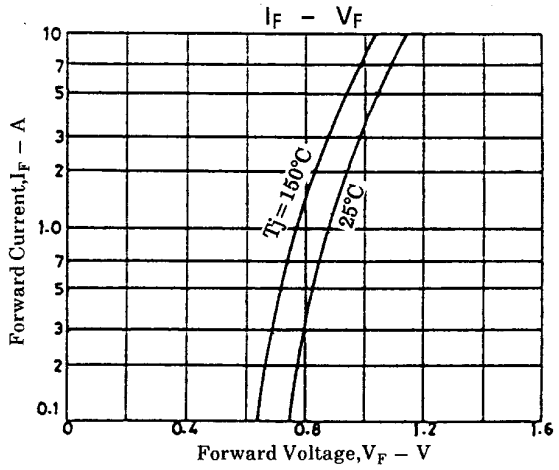
I_O – Ta



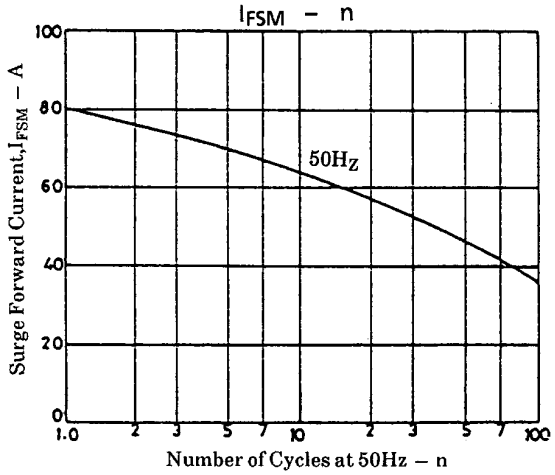
I_O – Tc



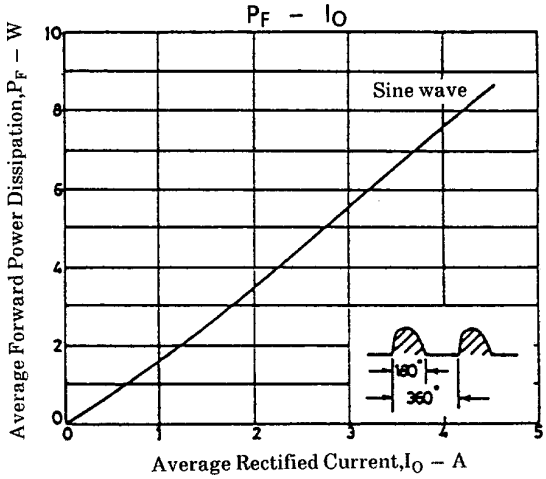
I_F – V_F



I_{FSM} – n



P_F – I_O



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