Ordering number : ENN2817B

Diffused Junction Silicon Diode

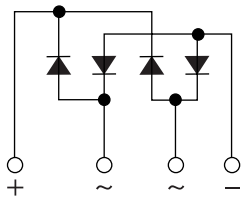
DBF20

2.0A 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=2.0A.

Electrical Connection

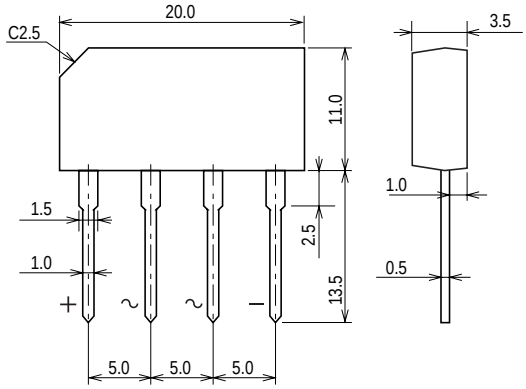


Package Dimensions

unit : mm

1202

[DBF20]



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	DBF20C	DBF20G	Unit
Peak Reverse Voltage	V_{RM}		200	600	V
Average Recitified Current	I_O	Tc=114°C, with a 50×50×1.5mm^3 Al fin	→	2.0	A
		Ta=25°C, without fin	→	1.5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	60	A
Junction Temperature	Tj		→	150	°C
Storage Temperature	Tstg		→	−40 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	I_F=0.75A			1.05	V
Reverse Current	I_R	V_R : At each V_{RM}			10	μA
Thermal Resistance(Junction-Ambient)	Rth(j-a)	without fin			75	°C/W
Thermal Resistance(Junction-Case)	Rth(j-c)	with an Al fin			10	°C/W

SANYO Electric Co.,Ltd. Semiconductor Company

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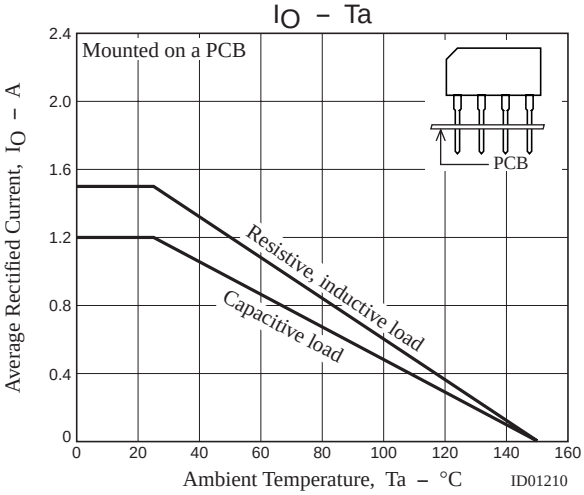
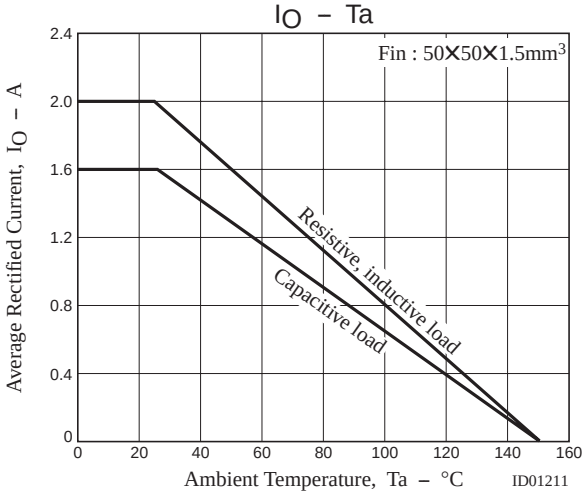
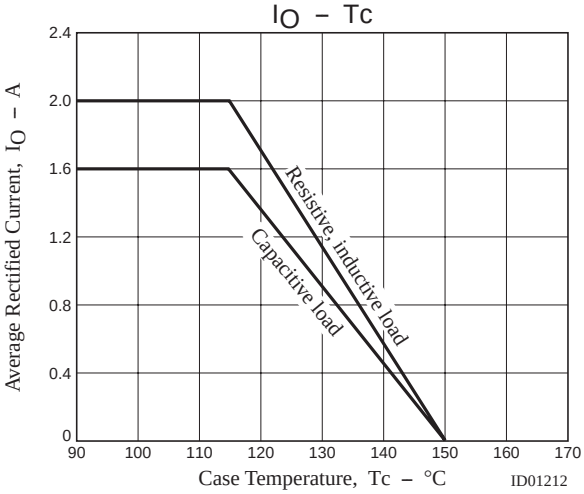
I_O – Ta



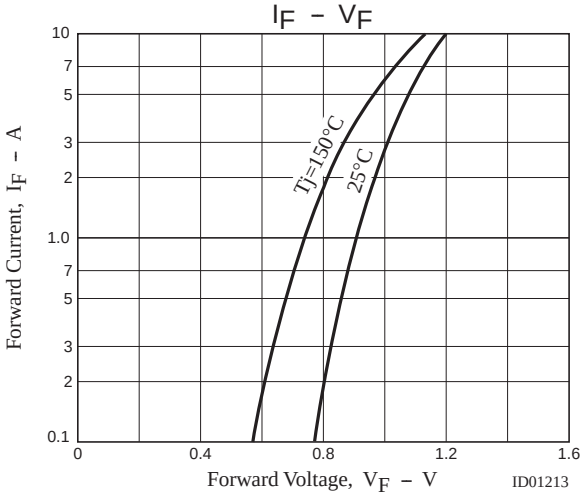
I_O – Ta



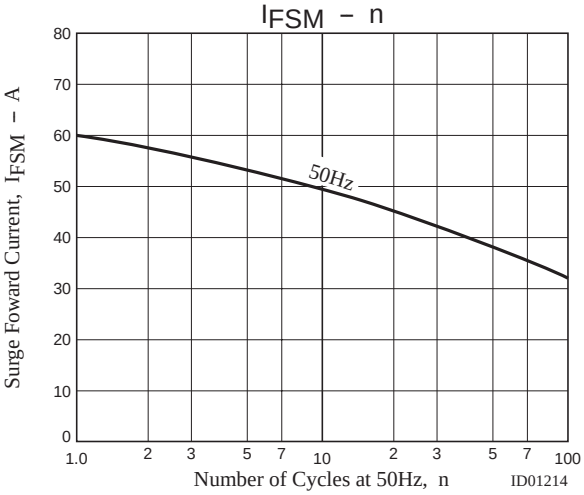
I_O – Tc



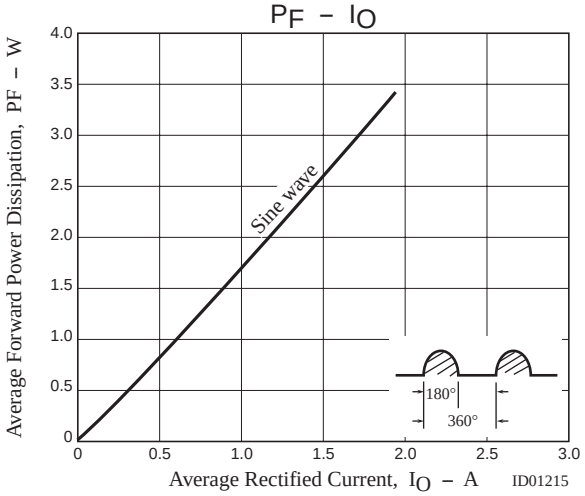
I_F – V_F



I_{FSM} – n



P_F – I_O



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