



SANYO Semiconductors

## DATA SHEET

# DBF250

 — Diffused Junction Silicon Diode  

## 25A Single-Phase Bridge Rectifier

### Features

- Glass passivation for high reliability.
- Plastic molded structure.
- Peak reverse voltage :  $V_{RM}=200, 600V$ .
- Average output current :  $I_O=25A$ .

### Specifications

**Absolute Maximum Ratings** at  $T_a=25^\circ C$

Parameter	Symbol	Conditions	DBF250C	<del>DBF250G</del>	Unit
Peak Reverse Voltage	$V_{RM}$		200	600	V
Average Output Current	$I_O$	$T_c=98^\circ C$ , With heatsink	→	25	A
		$T_a=25^\circ C$ , Without heatsink	→	3.5	A
Surge Forward Current	$I_{FSM}$	50Hz sine 1cycle peak value	→	350	A
Junction Temperature	$T_j$		→	150	$^\circ C$
Storage Temperature	$T_{stg}$		→	-40 to +150	$^\circ C$
Dillective Strength Voltage	$V_{dis}$	Terminals tc case, AC 1 minute	→	2.5	kV
Tightening Torque	TOR	( ): recommended value	→	0.8(0.5)	N•m

**Electrical Characteristics** at  $T_a=25^\circ C$  Per Constituent element of bridge.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=12.5A$			1.05	V
Reverse Current	$I_R$	$V_R=At$ each $V_{RM}$			10	$\mu A$
Thermal Resistance(Junction-Ambient)	$R_{th(j-a)}$	Without heatsink			22	$^\circ C / W$
Thermal Resistance(Junction-Case)	$R_{th(j-c)}$	With heatsink			1	$^\circ C / W$
Thermal Resistance(Junction-Lead)	$R_{th(j-l)}$	Without heatsink			5	$^\circ C / W$

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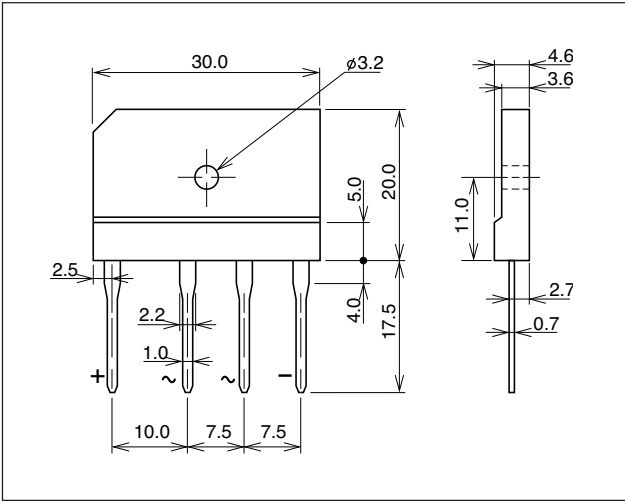
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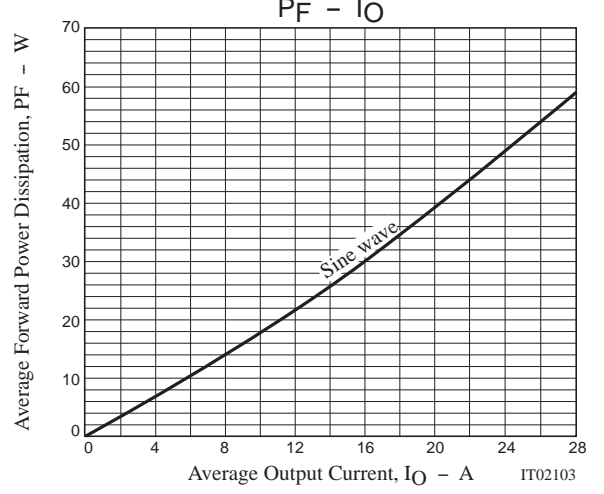
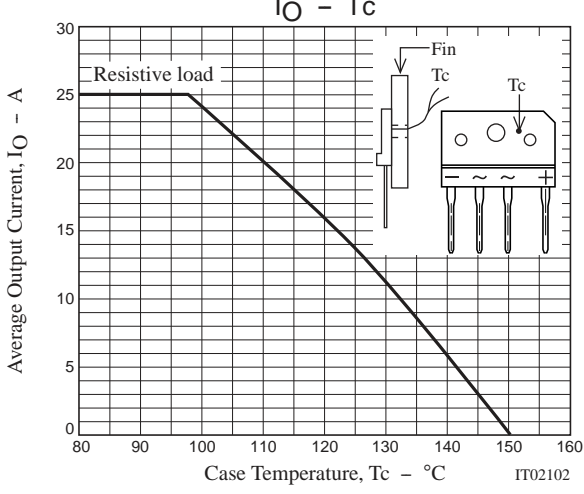
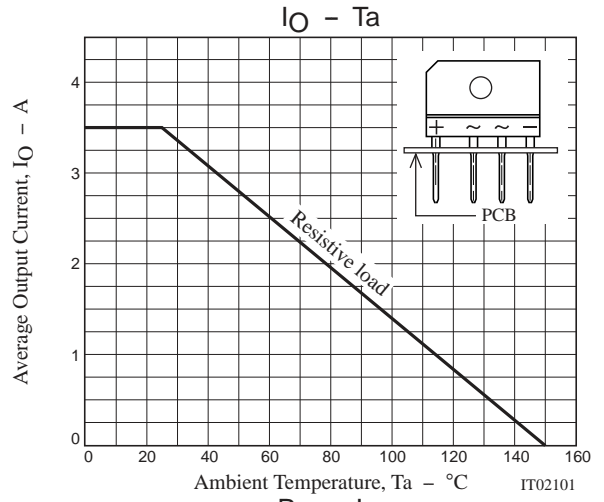
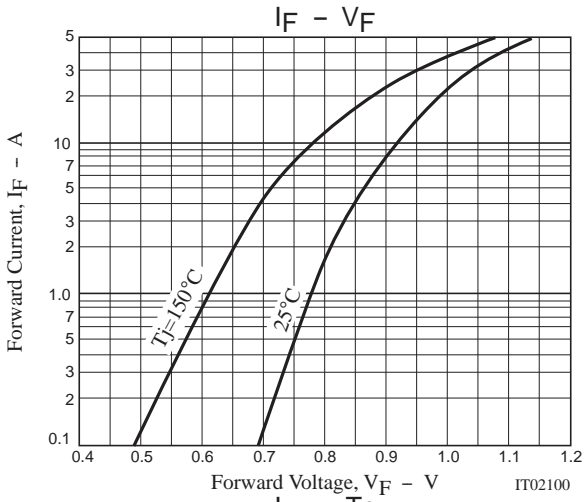
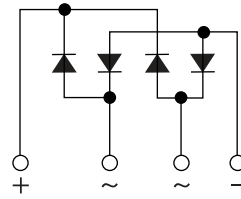
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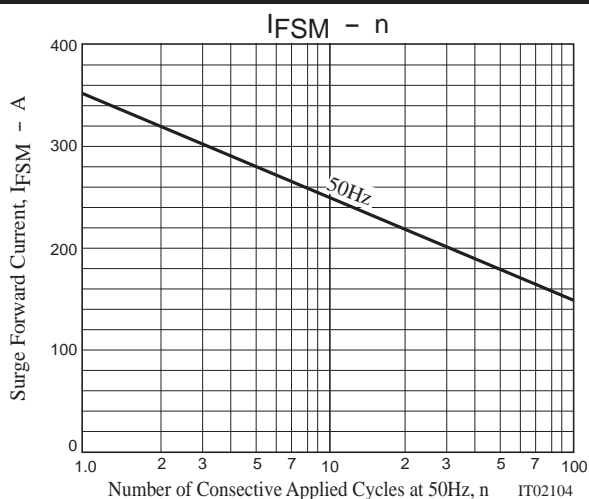
**Package Dimensions**

unit : mm (typ)  
1191A



**Electrical Connection**





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