

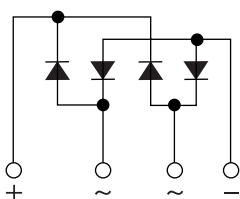


## 15A Single-Phase Bridge Rectifier

### Features

- Glass passivation for high reliability.
- Plastic molded structure.
- Peak reverse voltage :  $V_{RM}=200, 600V$ .
- Average rectified current :  $I_O=15A$ .

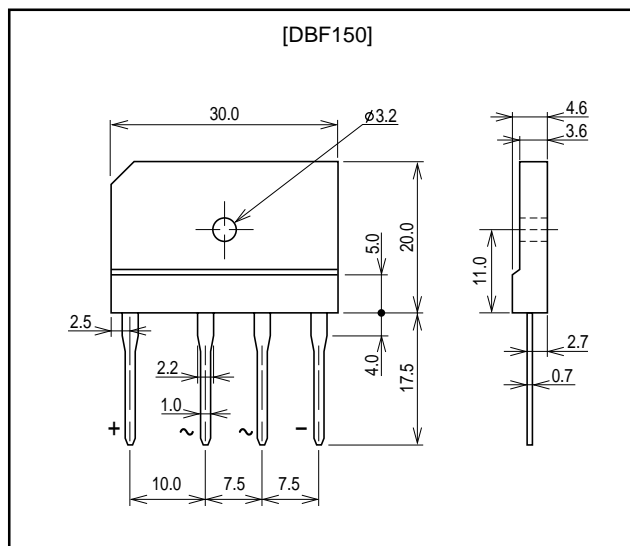
### Electrical Connection



### Package Dimensions

unit : mm

1191A



### Specifications

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

Parameter	Symbol	Conditions	DBF150C	DBF150G	Unit
Peak Reverse Voltage	$V_{RM}$		200	600	V
Average Rectified Current	$I_O$	$T_c=100^\circ C$ , With heatsink	→	15	A
		$T_a=25^\circ C$ , Without heatsink	→	3.2	A
Surge Forward Current	$I_{FSM}$	50Hz sine 1 cycle peak value	→	200	A
Junction Temperature	$T_j$		→	150	$^\circ C$
Storage Temperature	$T_{stg}$		→	-40 to +150	$^\circ C$

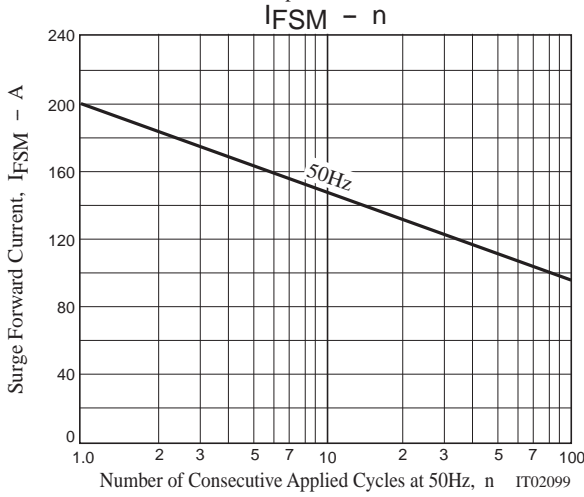
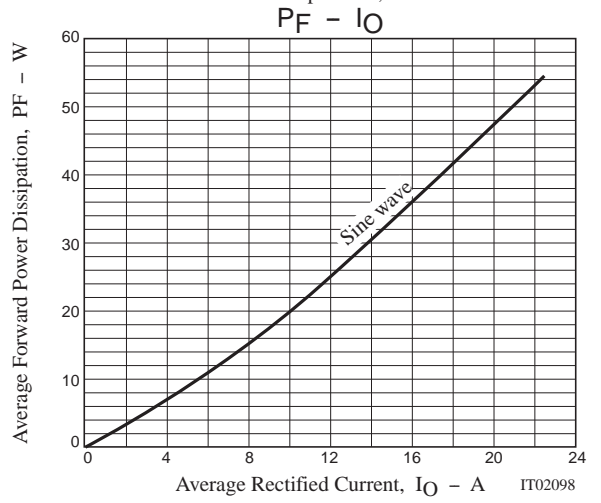
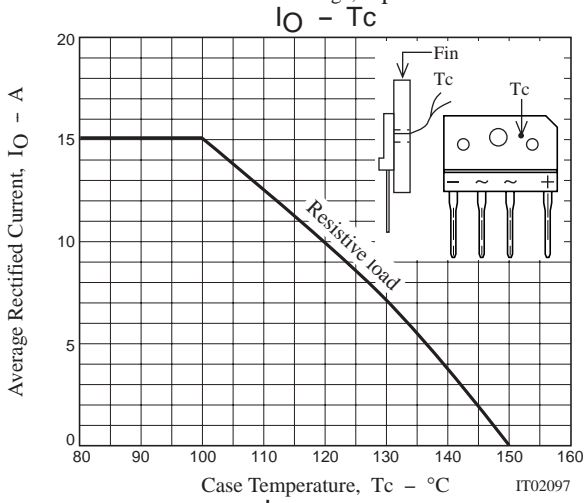
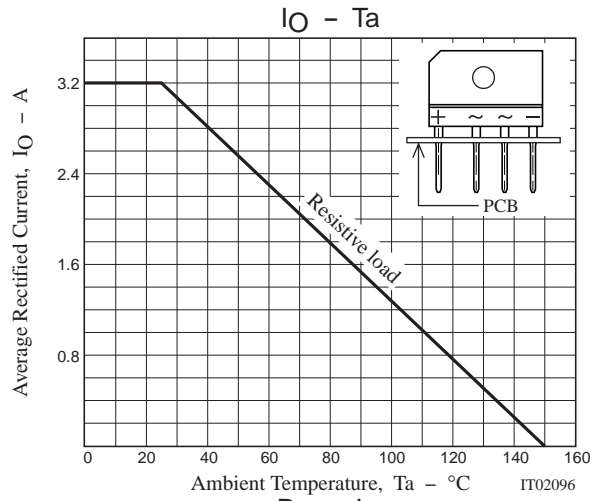
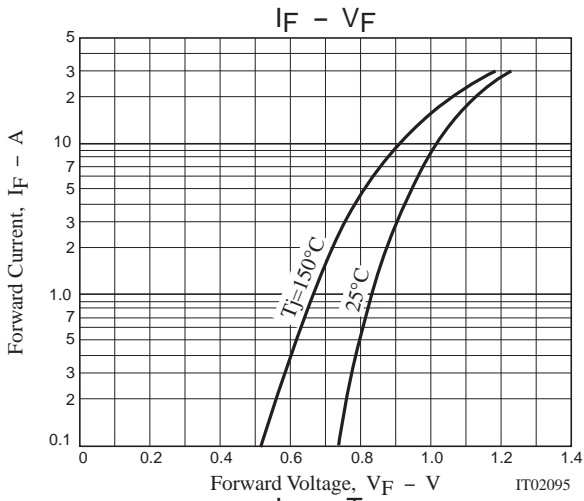
#### Electrical Characteristics at $T_a=25^\circ C$ Per Constituent element of bridge.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=7.5A$			1.1	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			1.5	$^\circ C/W$

Note) Maximum tightening torque : 0.49N•m

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# DBF150



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