



DBF40

Silicon Diffused Junction Type

4.0A Single-Phase Bridge Rectifier

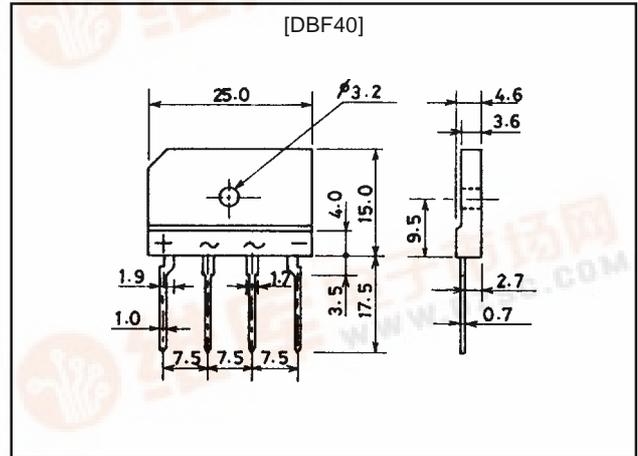
Features

- 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



Specifications

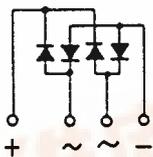
Absolute Maximum Ratings at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	DBF40C	DBF40G	Unit
Peak Reverse Voltage	V_{RM}		200	600	V
Average Rectified Current	I_O	$T_c=108^\circ C$, with $80 \times 80 \times 1.5mm^3$ Al fin	→	4.0	A
		$T_a=25^\circ C$, without fin	→	2.3	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	80	A
Junction Temperature	T_J		→	150	$^\circ C$
Storage Temperature	T_{stg}		→	-40 to +150	$^\circ C$

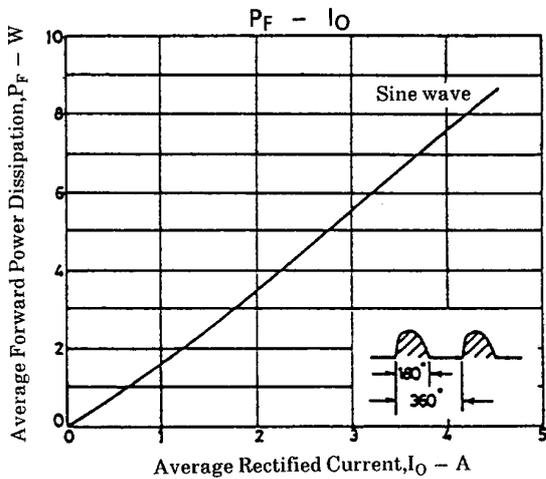
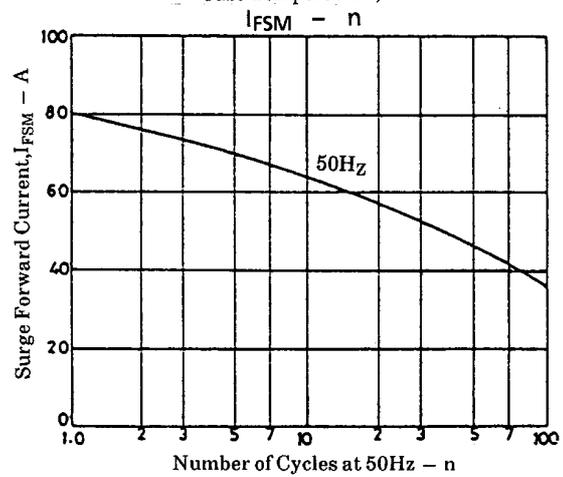
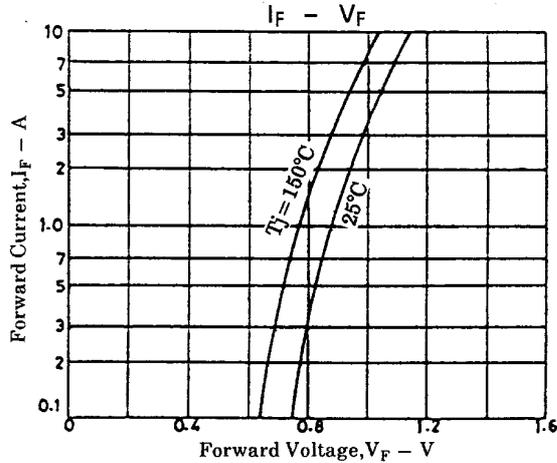
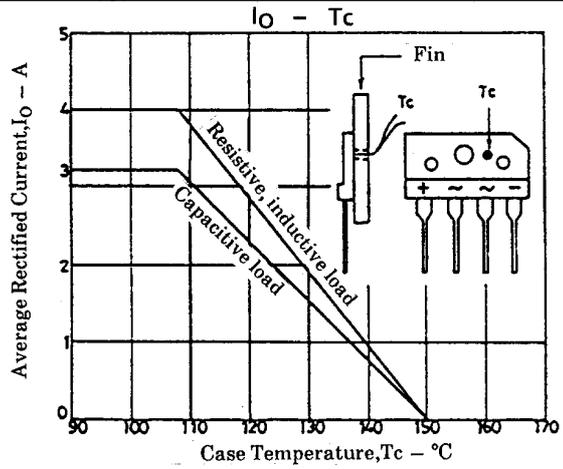
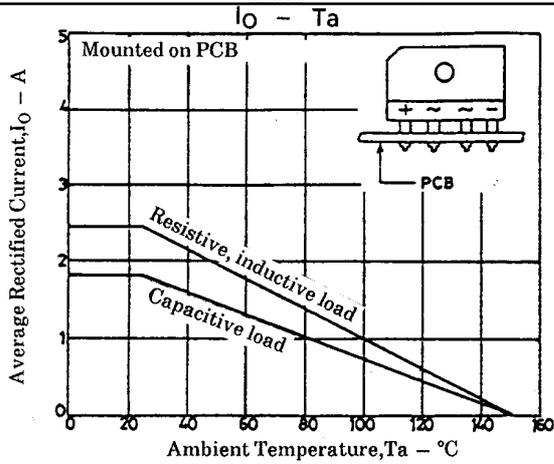
Electrical Characteristics at $T_a = 25^\circ C$, per constituent element of bridge.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=2.0A$			1.05	V
Reverse Current	I_R	V_R :At each V_{RM}			10	μA
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$	Without fin			30	$^\circ C/W$
Thermal Resistance (Junction-Case)	$R_{th(j-c)}$	With Al fin			5.5	$^\circ C/W$

Electrical Connection



DBF40



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