



DBA100G

10.0A Single-Phase Bridge Rectifier

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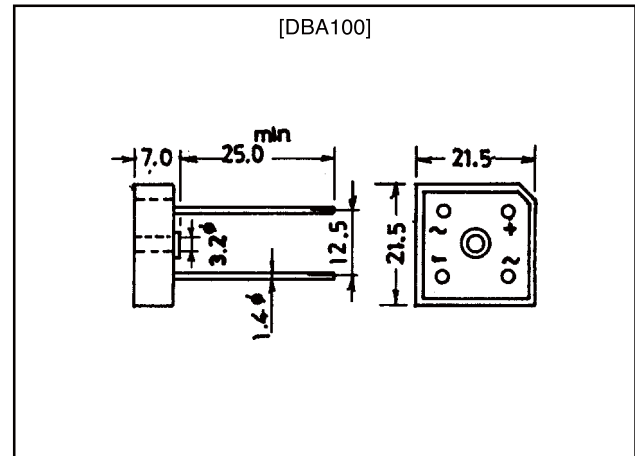
Features

- Plastic molded structure.
- Glass passivation for high reliability.
- Peak reverse voltage: $V_{RM}=200, 600V$.
- Average rectified current: $I_O=10.0A$.

Package Dimensions

unit:mm

1090



Specifications

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

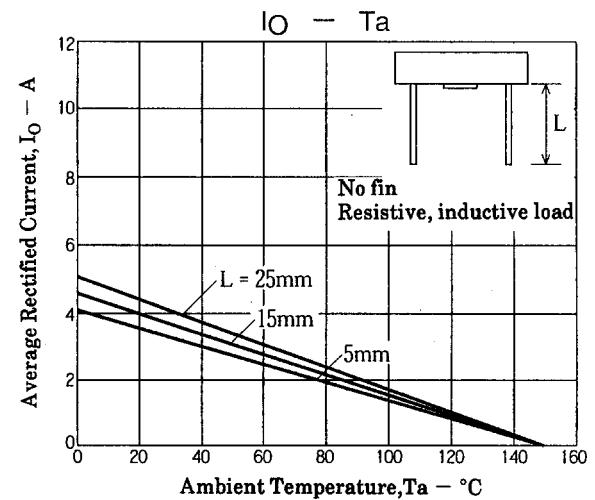
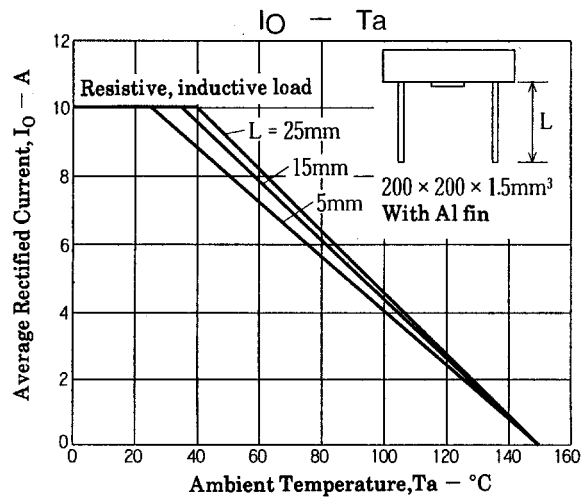
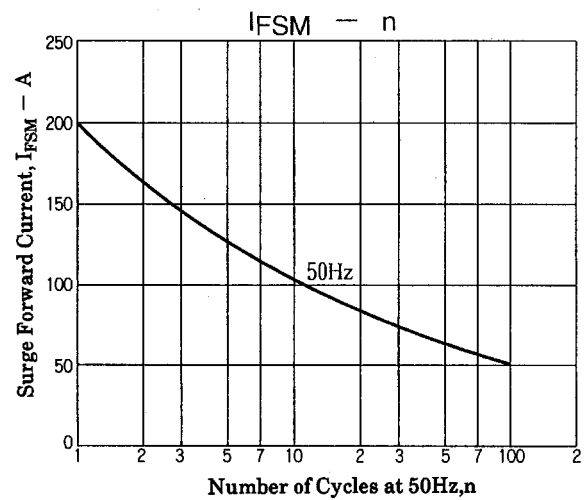
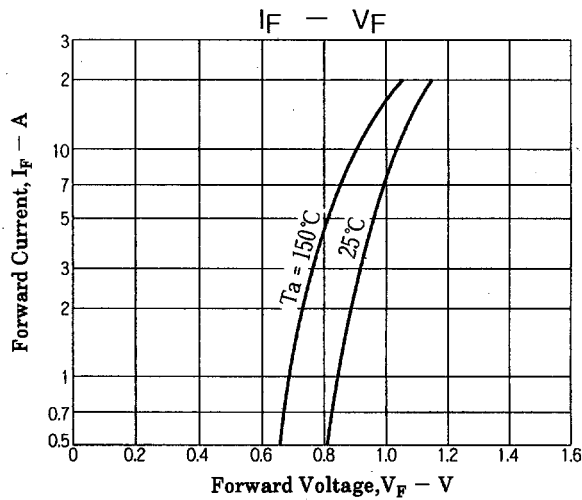
Parameter	Symbol	Conditions	DBA100G	DBA100G	Unit
Peak Reverse Voltage	V_{RM}		200	600	V
Average Rectified Current	I_O	$T_a=40^\circ C$	→	3.7	A
		$T_a=40^\circ C$, with $200 \times 200 \times 1.5mm^3$ Al fin	→	10.0	A
Surge Forward Current	I_{FSM}		→	200	A
Junction Temperature	T_j		→	150	$^\circ C$
Storage Temperature	T_{stg}		→	-30 to +150	$^\circ C$

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

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	$I_F=5.0A$			1.05	V
Reverse Current	I_R	V_R : At each V_{RM}			10	μA

Note: Mounting torque: $0.49N \cdot m$ max.



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