



25.0A Single-Phase Bridge Rectifier

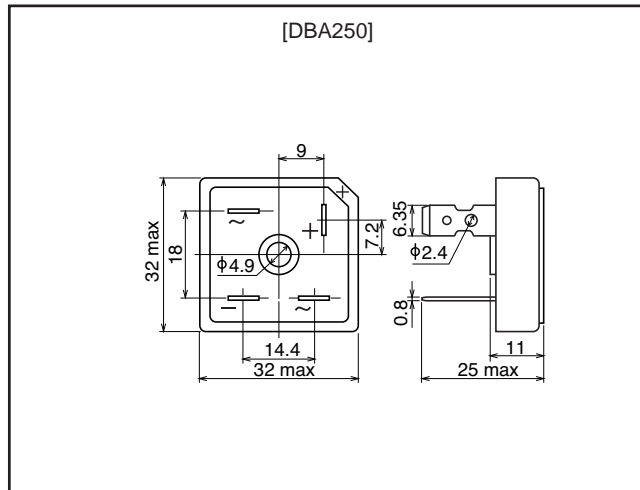
Features

- Plastic molded structure.
- Glass passivation for high reliability.
- Peak reverse voltage : $V_{RM}=200, 600V$.
- Average rectified current : $I_O=25.0A$.

Package Dimensions

unit : mm

1162



Specifications

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

Parameter	Symbol	Conditions	DBA250C	DBA250G	Unit
Peak Reverse Voltage	V_{RM}		200	600	V
Average Rectified Current	I_O	$T_a=40^\circ C$	→	6.0	A
		$T_a=40^\circ C$, with a $300 \times 300 \times 3.0 \text{ mm}^3$ Cu fin	→	25.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	400	A
Junction Temperature	T_j		→	150	$^\circ C$
Storage Temperature	T_{stg}		→	-40 to +150	$^\circ C$
Insulation Voltage	V_{IS}		→	2	kV

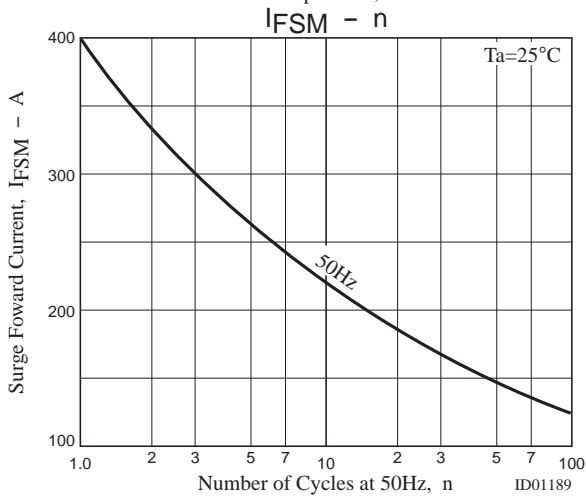
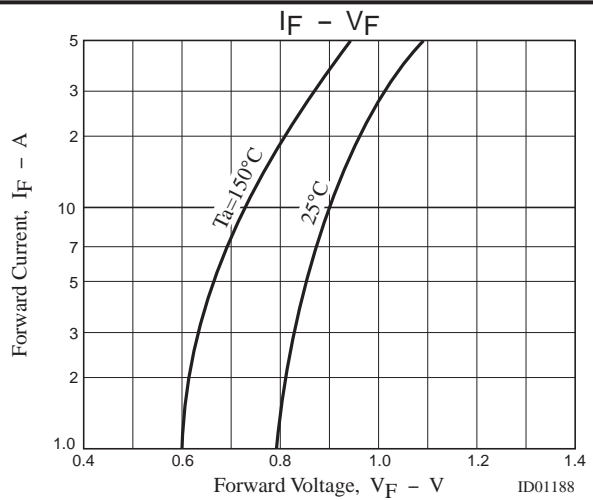
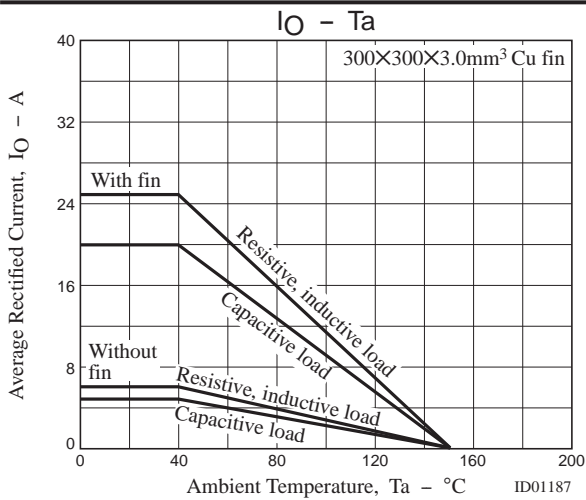
Electrical Characteristics at $T_a=25^\circ C$

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	μA
Thermal Resistance	$R_{th(j-c)}$	Junction-Case			1.5	$^\circ C/W$

Note : Tightening torque : 0.98N·m max.

Note* : Per constituent element of bridge.

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