

**DBA150**

Silicon Diffused Junction Type

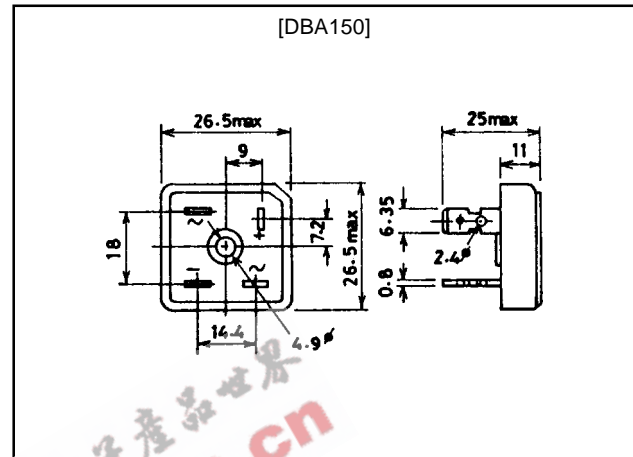
**15.0A Single-Phase Bridge Rectifier****Features**

- Plastic molded structure.
- High reliability attained by glass passivation.
- Peak reverse voltage:  $V_{RM}=200, 600V$ .
- Average rectified current:  $I_O=15A$ .

**Package Dimensions**

unit:mm

1170

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

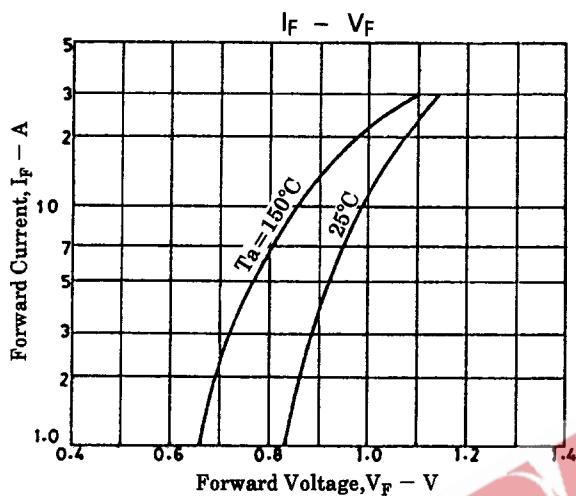
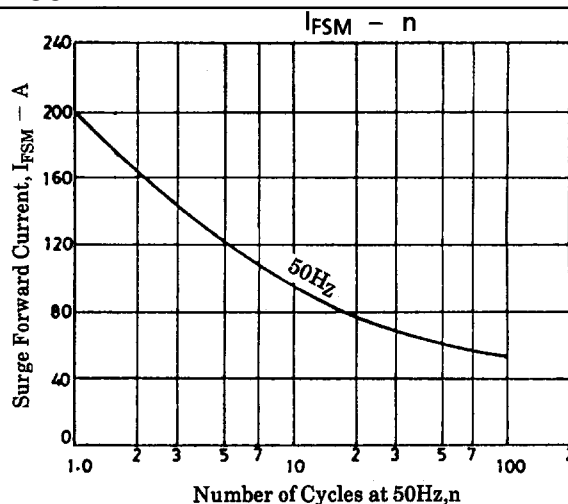
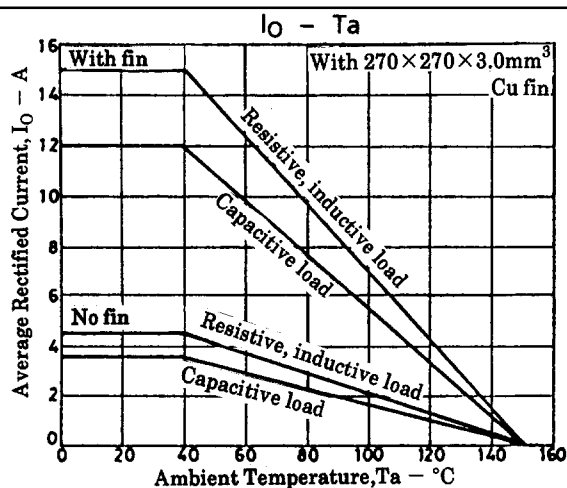
Parameter	Symbol	Conditions	DBA150C	DBA150G	Unit
Peak Reverse Voltage	$V_{RM}$		200	600	V
Average Rectified Current	$I_O$	$T_a=40^\circ C$	→	4.5	A
		$T_a=40^\circ C$ , with $270 \times 270 \times 3.0mm^3$ Cu fin	→	15.0	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1cycle	→	200	A
Junction Temperature	$T_j$		→	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	$V_F$	$I_F=7.5A^*$			1.05	V
Reverse Current	$I_R$	$V_R$ :At each $V_{RM}^*$			10	$\mu A$
Thermal Resistance	$R_{th(j-c)}$	Junction-Case			2.3	$^\circ C/W$

Note:Tightening torque:0.98N·m max.

Note\*:Per constituent element of bridge.



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