## **DBA150G**

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

### Features

- Plastic molded structure
- Glass passivation for high reliability
- Peak reverse voltage: V<sub>RM</sub>=600V
- Average rectified current: IO=15A

## SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS at Ta = 25°C (Note 1)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	VRM	600	V
Average Rectified Current Ta = 40°C		4.5	А
Average Rectified Current Ta = $40^{\circ}$ C with a 270 × 270 × 3.0mm <sup>3</sup> Cu fin	IO	15.0	A
Surge Forward Current 50Hz sine wave, 1cycle	IFSM	200	А
Junction Temperature	Тј	150	°C
Storage Temperature	Tstg	-40 to +150	°C
Insulation Voltage	VIS	2	kV

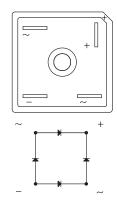
Note 1 : Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



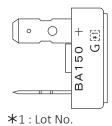
## **ON Semiconductor®**

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## **ELECTRICAL CONNECTION**



MARKING



#### **ORDERING INFORMATION**

See detailed ordering and shipping information on page 4 of this data sheet

## **DBA150G**

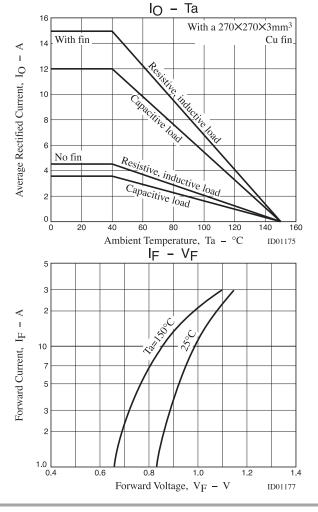
## ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

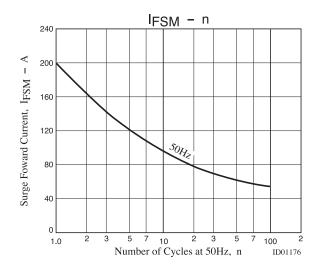
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	Unit
Forward Voltage	٧F	I <sub>F</sub> = 7.5A (Note 4)			1.05	V
Reverse Current	IR	V <sub>R</sub> : At each V <sub>RM</sub> (Note 4)			10	μA
Thermal Resistance	Rth(j-c)	Junction-Case			2.3	°C / W

Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Note 3 : Tightening torque : 0.98N·m max.

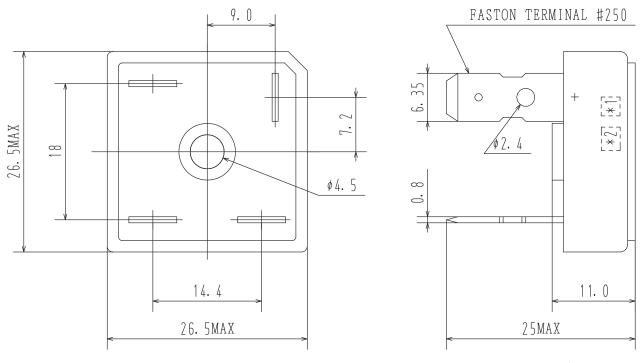
Note 4 : Per constituent element of bridge.





### PACKAGE DIMENSIONS unit : mm

**GBPC 26.5x26.5 / DBA150** CASE 160AA ISSUE O





## **DBA150G**

#### **ORDERING INFORMATION**

Device	Marking	Package	Shipping
DBA150G	BA150G	GBPC 26.6x26.5 / DBA150 (Pb-Free)	100pcs / Tray 500pcs / Box

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