

DBA150G

15.0A Single-Phase Bridge Rectifier



ON Semiconductor®

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Features

- Plastic molded structure
- Glass passivation for high reliability
- Peak reverse voltage: $V_{RM}=600V$
- Average rectified current: $I_O=15A$

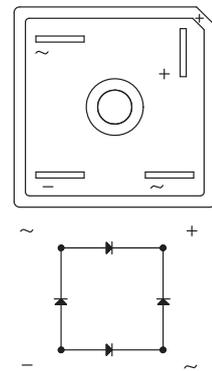
SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS at $T_a = 25^\circ C$ (Note 1)

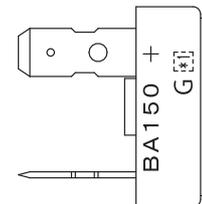
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	600	V
Average Rectified Current $T_a = 40^\circ C$	I_O	4.5	A
Average Rectified Current $T_a = 40^\circ C$ with a $270 \times 270 \times 3.0mm^3$ Cu fin		15.0	A
Surge Forward Current 50Hz sine wave, 1cycle	I_{FSM}	200	A
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-40 to +150	$^\circ C$
Insulation Voltage	V_{IS}	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.

ELECTRICAL CONNECTION



MARKING



*1 : Lot No.

ORDERING INFORMATION

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

DBA150G

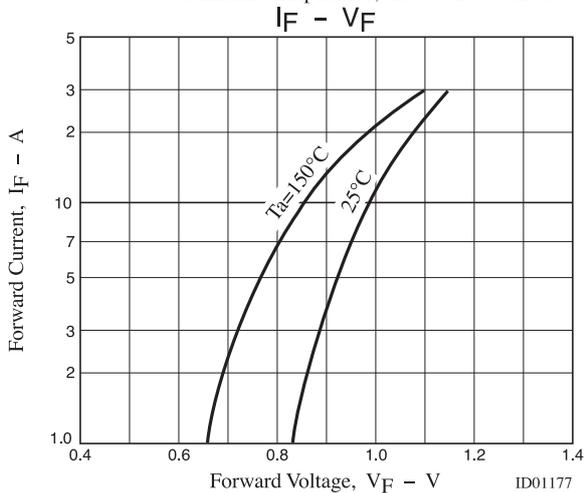
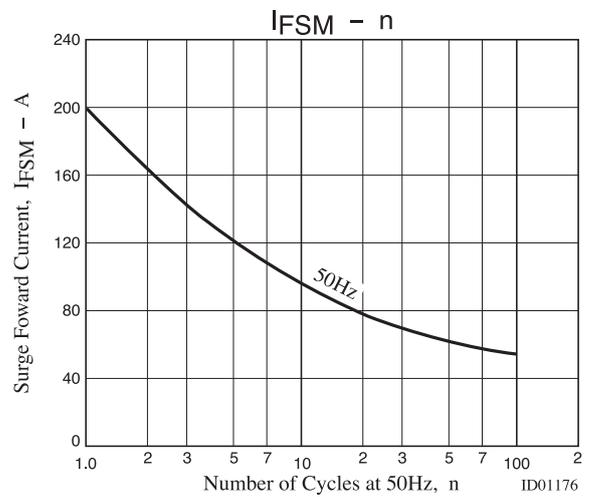
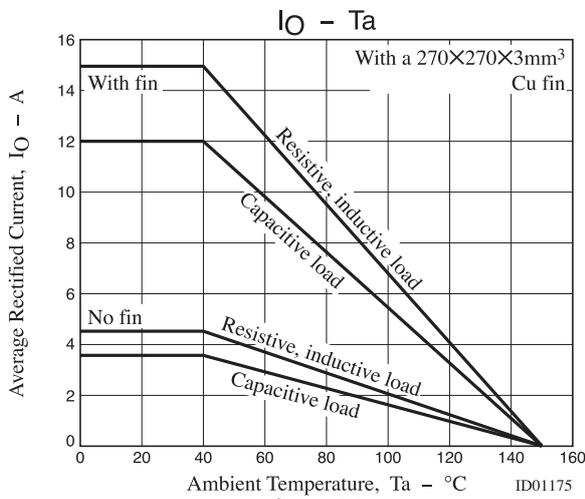
ELECTRICAL CHARACTERISTICS at $T_a = 25^\circ\text{C}$ (Note 2)

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F = 7.5\text{A}$ (Note 4)			1.05	V
Reverse Current	I_R	V_R : At each V_{RM} (Note 4)			10	μA
Thermal Resistance	$R_{th(j-c)}$	Junction-Case			2.3	$^\circ\text{C} / \text{W}$

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.



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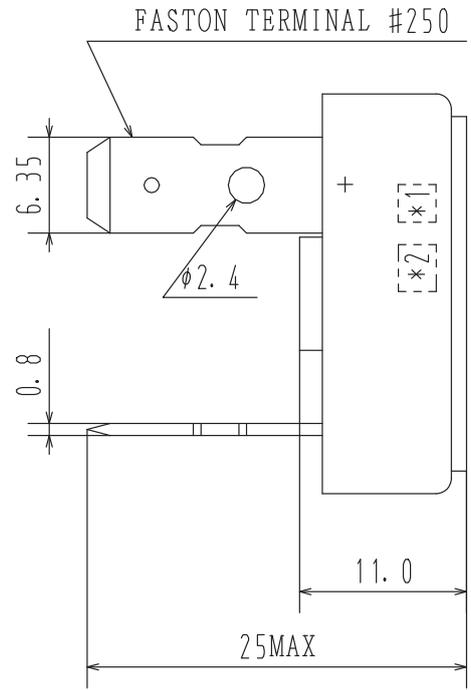
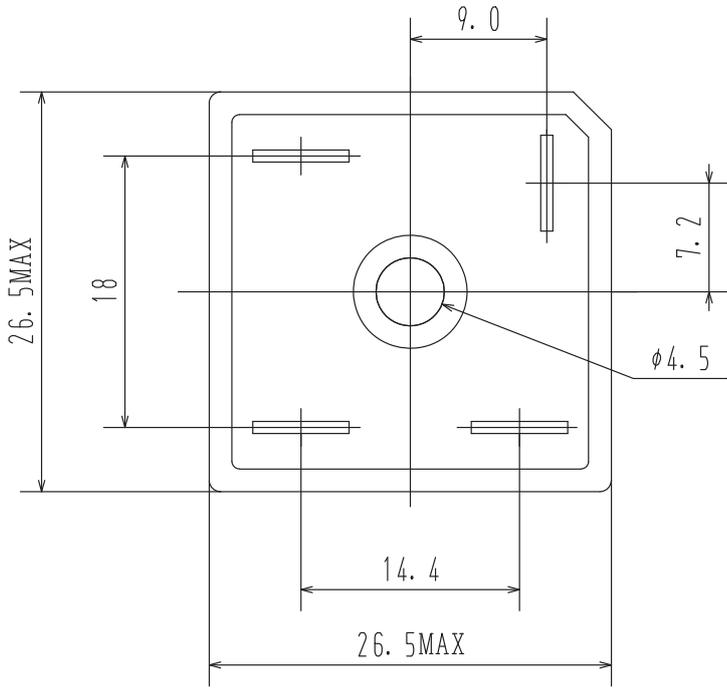
PACKAGE DIMENSIONS

unit : mm

GBPC 26.5x26.5 / DBA150

CASE 160AA

ISSUE 0



*1 : Lot No.

*2 : G

DBA150G

ORDERING INFORMATION

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

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