

DBD250G

25.0A 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 output current: $I_O=25.0A$

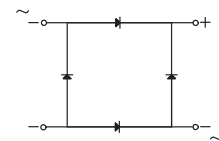
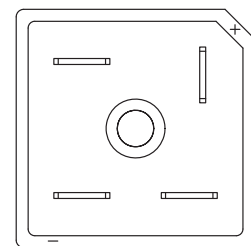
SPECIFICATIONS

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

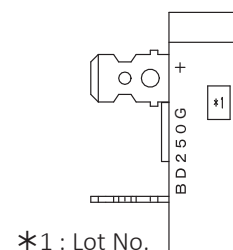
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	600	V
Average Output Current $T_a = 40^\circ C$	I_O	6.0	A
Average Output Current $T_a = 40^\circ C$ With $300 \times 300 \times 3.0mm^3$ Cu fin		25.0	A
Surge Forward Current 50Hz sine wave, 1cycle	I_{FSM}	400	A
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-40 to +150	$^\circ C$
Directive Strength Voltage Terminals to case, AC 1 minute	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

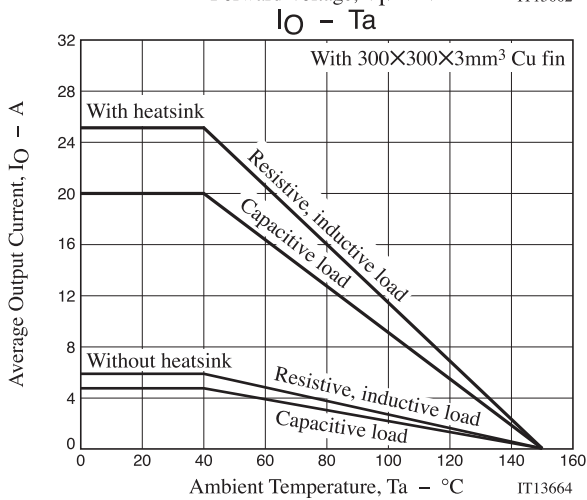
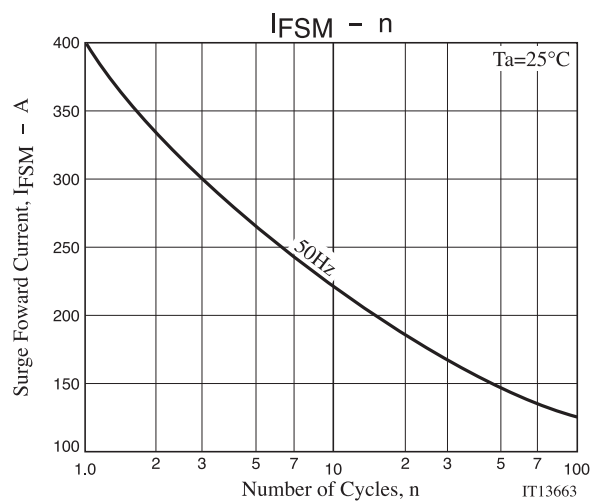
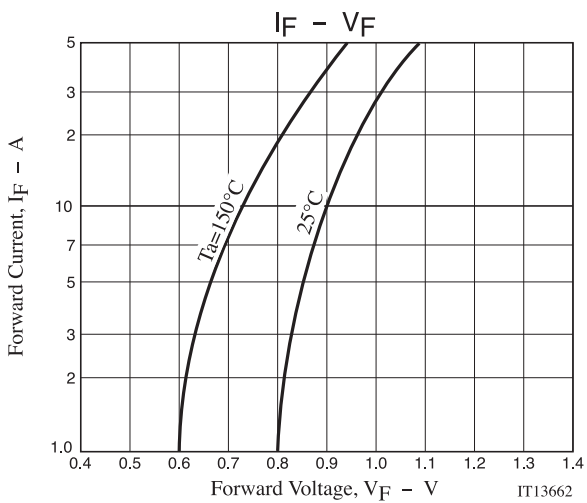
DBD250G

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

Parameter	Symbol	Conditions	Value			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	°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 : Maximum tightening torque : 0.98Nm



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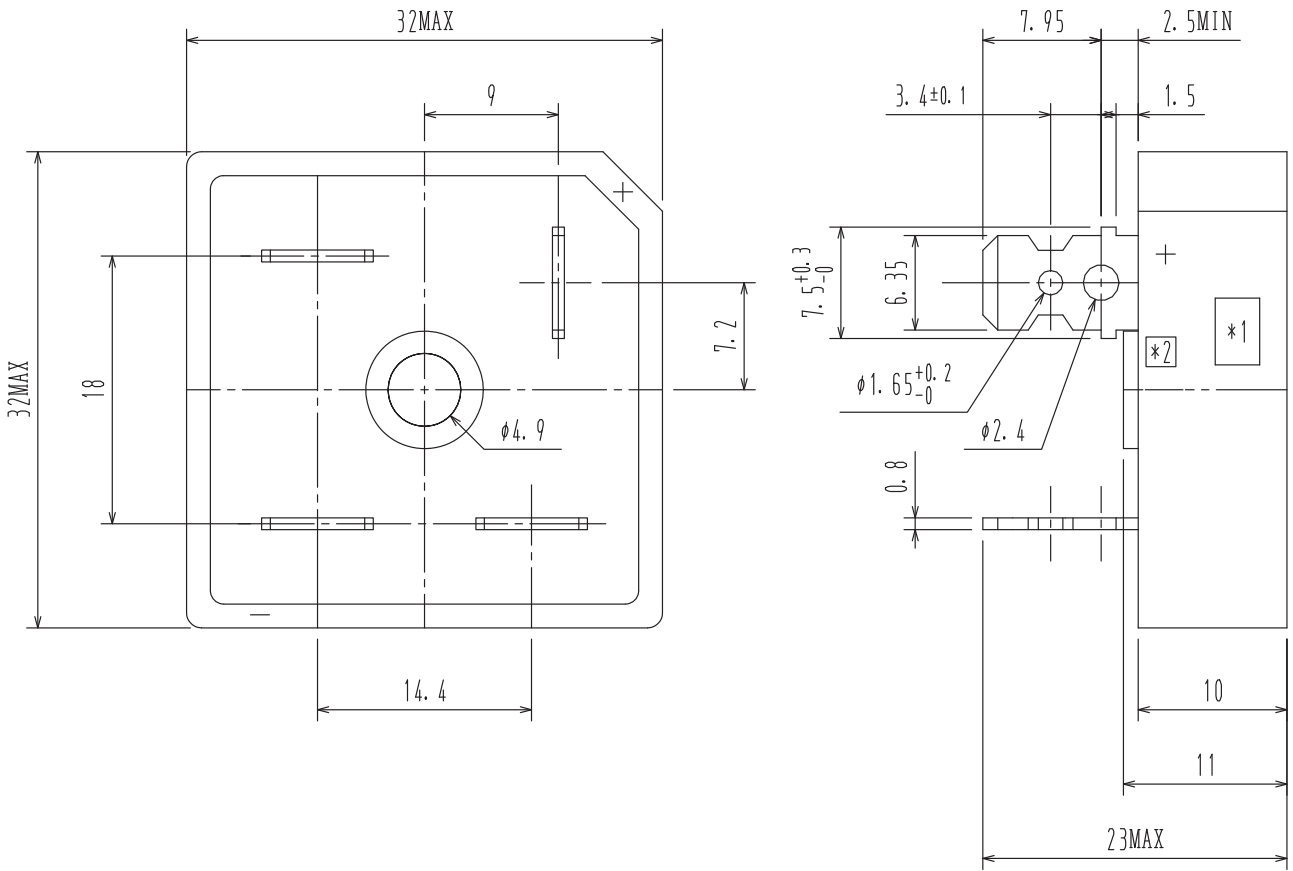
PACKAGE DIMENSIONS

unit : mm

GBPC 32x32 / DBD250

CASE 160AB

ISSUE 0



*1 : Lot No.
*2 : G

DBD250G

ORDERING INFORMATION

Device	Marking	Package	Shipping
DBD250G	BD250G	GBPC 32x32 / DBD250 (Pb-Free)	50pcs / Tray 250pcs / Box

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