# 1.0A Single-Phase Bridge Rectifier



## ON Semiconductor®

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#### **Features**

• Plastic molded structure

Peak reverse voltage: V<sub>RM</sub>=600V
 Average output current : I<sub>O</sub>=1.0A

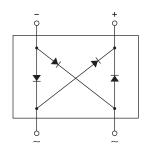
#### **SPECIFICATIONS**

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

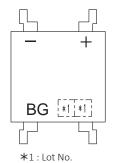
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Parameter	Symbol	Value	Unit				
Peak Reverse Voltage	V <sub>RM</sub>	600	V				
Average Output Current Ta = 25°C	lo	1.0	Α				
Surge Forward Current 50Hz sine wave, 1cycle	IFSM	30	Α				
Junction Temperature	Tj	150	°C				
Storage Temperature	Tstg	-40 to +150	°C				

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**



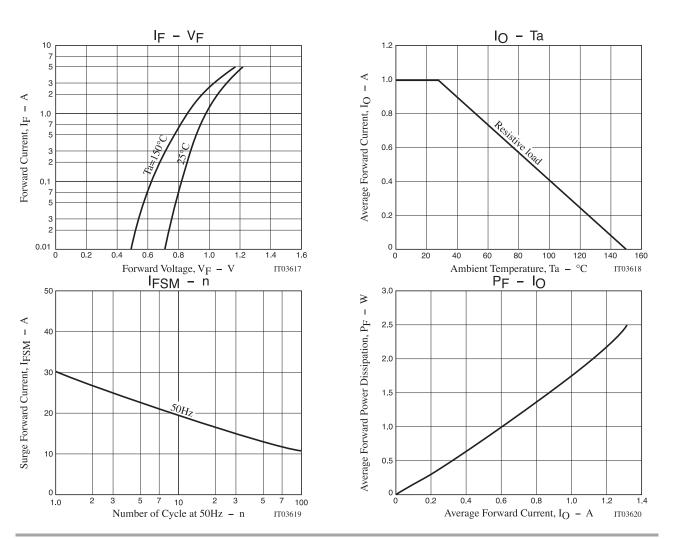
## ORDERING INFORMATION

See detailed ordering and shipping information on page 5 of this data sheet

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

Parameter S	Symbol	Conditions	Value			Unit
			min	typ	max	Offic
Forward Voltage	٧F	I <sub>F</sub> = 0.5A			1.05	V
Reverse Current	IR	$V_R = V_{RM}$			10	μA
Thermal Resistance	Rth(j-l)	Junction-Lead			15	°C/W
	Rth(j-a)	Junction-Ambient			68	°C/W

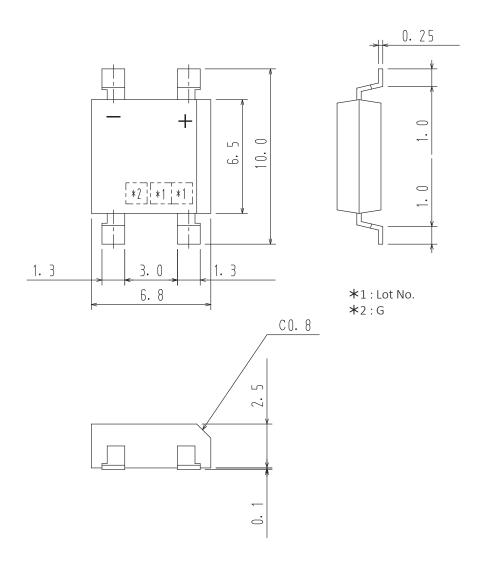
Note 2: Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



## PACKAGE DIMENSIONS

unit : mm DBD10G-TM-E

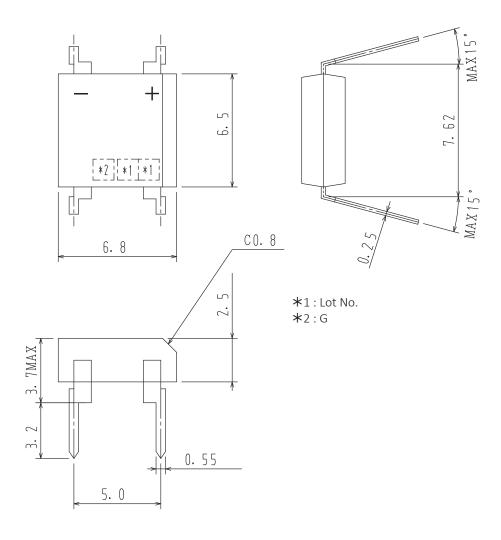
## PDIP4 GW 6.8x6.5



# PACKAGE DIMENSIONS

unit : mm DBD10G-E

## PDIP4 6.8x6.5, 5.0P / DBD10



#### **ORDERING INFORMATION**

Device	Marking	Package	Shipping	
DBD10G-TM-E	20	PDIP4 GW 6.8x6.5 (Pb-Free)	1,000pcs / Reel 2,000pcs / Box	
DBD10G-E	BG PDIP4 GW 6.8x6.5, 5.0P / DBD10 (Pb-Free)		70pcs / Fan-Fold	

<sup>†</sup> For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub\_link/Collateral/BRD8011-D.PDF

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