Ordering number : EN7030B

DBD10G

1.0A Single-Phase Bridge Rectifier

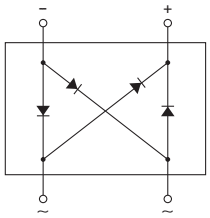
ON Semiconductor®

http://onsemi.com

Features

- Plastic molded structure
- Peak reverse voltage : V_{RM}=600V
- Average output current : I_O=1.0A

Electrical Connection



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Value	Unit
Peak Reverse Voltage	V_{RM}		600	V
Average Output Current	I_O	Ta=25°C	1.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	30	A
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		–40 to +150	°C

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 Characteristics at Ta=25°C

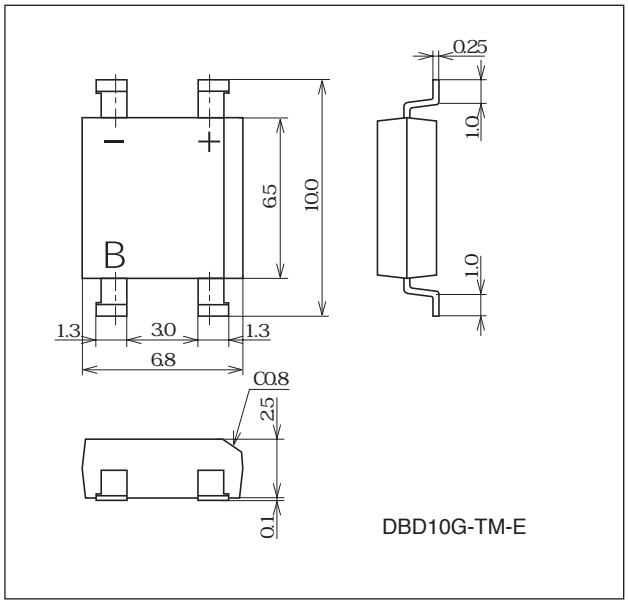
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Forward Voltage	V_F	I_F=0.5A			1.05	V
Reverse Current	I_R	V_R=V_{RM}			10	μA
Thermal Resistance	Rth(j-l)	Junction-Lead			15	°C / W
Thermal Resistance	Rth(j-a)	Junction-Ambient			68	°C / W

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.

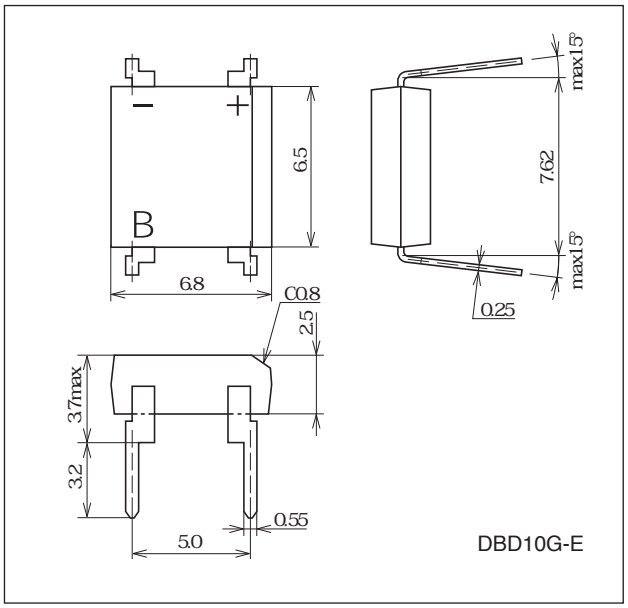
Package Dimensions

unit:mm(typ.)

Surface mount type (TM emboss taping)



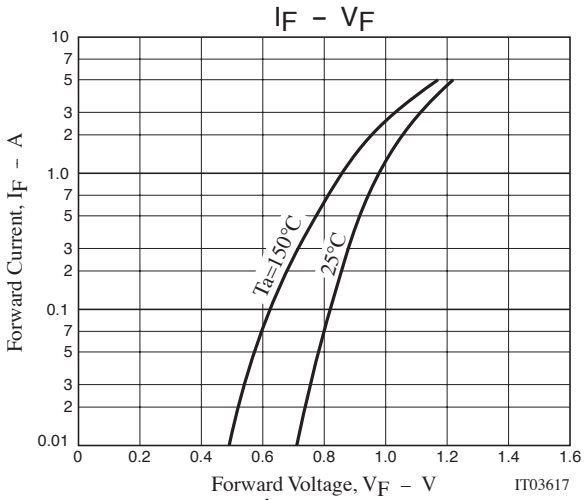
DBD10G-TM-E

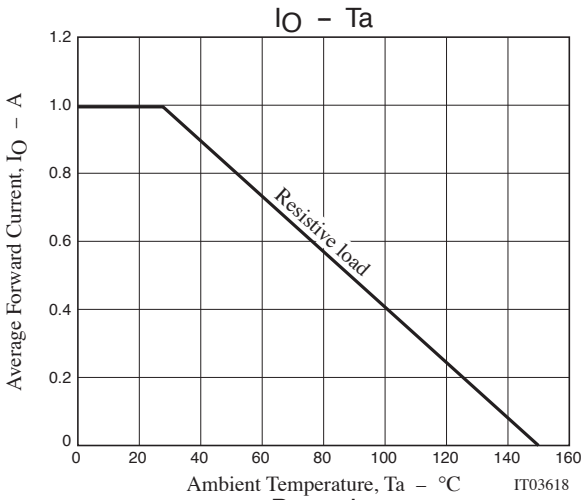


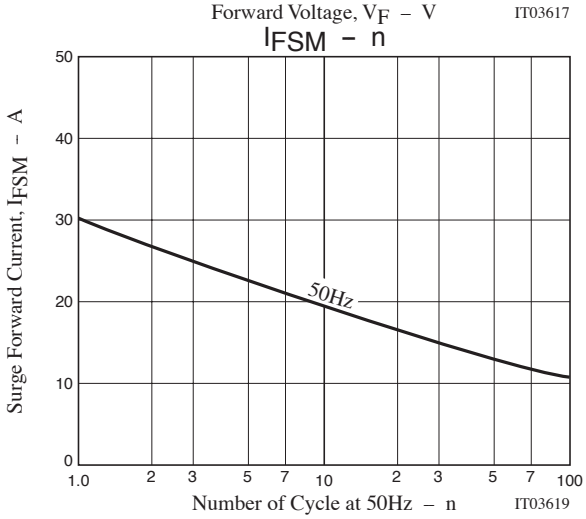
DBD10G-E

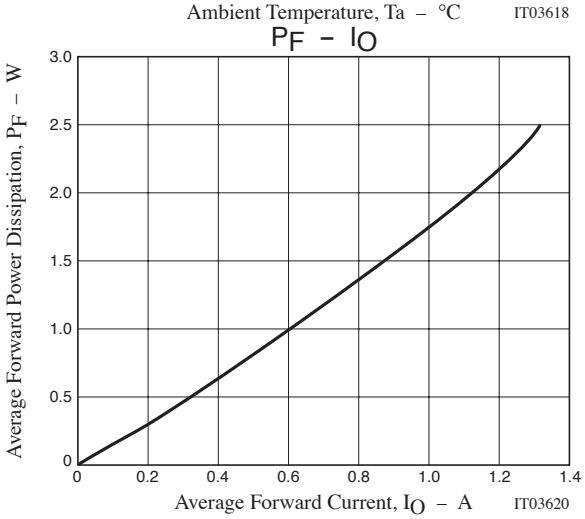
ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.









Ordering Information

Device	Shipping	memo
DBD10G-TM-E	1,000 pcs. / reel	Pb-Free
DBD10G-E	70 pcs. / fnfld	Pb-Free