# DBA40G

# 4.0A 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=4.0A

#### SPECIFICATIONS

**ABSOLUTE MAXIMUM RATINGS** at Ta = 25℃ (Note 1)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V <sub>RM</sub>	600	V
Average Rectified Current Ta = $40$ °C		2.6	А
Average Rectified Current Ta = $40$ °C mounted on a 60 × 60 × 1.5mm <sup>3</sup> Al fin	lo	4.0	A
Surge Forward Current 50Hz sine wave, 1cycle	IFSM	80	А
Junction Temperature	Тј	150	°C
Storage Temperature	Tstg	-30 to +150	°C

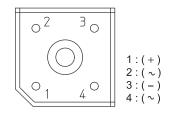
Note 1 : Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



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### **PIN ASSIGNMENT**





#### **ORDERING INFORMATION**

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

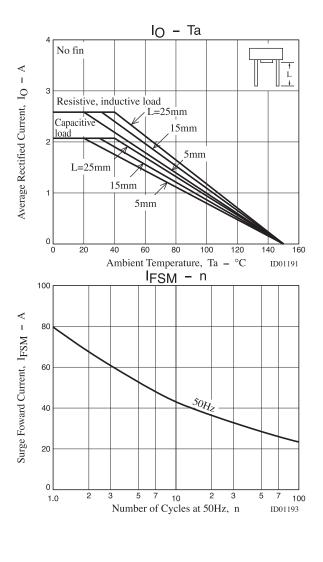


#### **ELECTRICAL CHARACTERISTICS** at Ta = 25°C (Note 2)

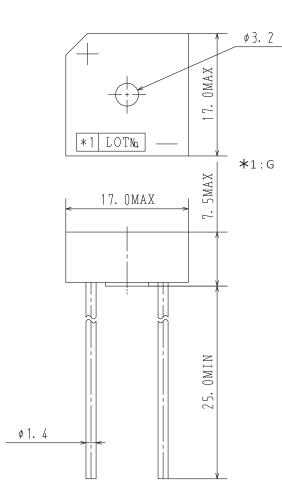
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	Unit
Forward Voltage	VF	I <sub>F</sub> = 2.0A			1.05	V
Reverse Current	IR	V <sub>R</sub> : At each V <sub>RM</sub>			10	μA

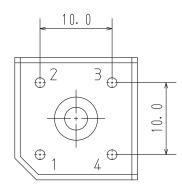
Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions. Note 3 : Mounted torque : 0.49N·m max.

Io – Ta 5 With a 60×60×1.5mm<sup>3</sup> Al fin Average Rectified Current, IO - A Resistive, inductive load L L=25mm Capacitive load 15mm З 5mm L=25mm 2 15mm 5mm 0 L 0 20 40 60 80 100 120 140 160 Ambient Temperature, Ta - °C ID01190 IF - VF 10 7 5 Ta=150°C Forward Current, IF - A 3 2 1.0 7 5 3 2 0.1 ō 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 Forward Voltage, V<sub>F</sub> - V ID01192 Soldering Temperature - t 10<sub>mm</sub> 15<sub>mm</sub> Soldering Temperature - °C 5<sub>mm</sub> 5<u>mm</u> L ↓ 100 5 2 7 1.0 10 Soldering Time, t - s ID01194



## GBPC-W17x17 / DBA40





#### ORDERING INFORMATION

Device	Marking	Package	Shipping
DBA40G	BA40G	GBPC-W 17x17 / DBA40 (Pb-Free)	100pcs / Tray 1,000pcs / Box

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