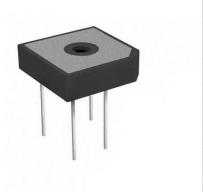


## **DBA500G Datasheet**

www.digi-electronics.com



https://www.DiGi-Electronics.com

DiGi Electronics Part Number DBA500G-DG

Manufacturer onsemi

Manufacturer Product Number DBA500G

Description BRIDGE RECT 1PHASE 600V 50A

**Detailed Description** Bridge Rectifier Single Phase Standard 600 V Throu

gh Hole



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



## **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
DBA500G	onsemi
Series:	Product Status:
	Obsolete
Diode Type:	Technology:
Single Phase	Standard
Voltage - Peak Reverse (Max):	Current - Average Rectified (Io):
600 V	50 A
Voltage - Forward (Vf) (Max) @ If:	Current - Reverse Leakage @ Vr:
1.05 V @ 25 A	10 μA @ 600 V
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
4-Square, GBPC-W	
Base Product Number:	
DBA5	

## **Environmental & Export classification**

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.10.0080

Ordering number : ENA0699A



# SANYO Semiconductors DATA SHEET

## **DBA500G**

Diffused Junction Silicon Diode

## **50A Single-Phase Bridge Rectifier**

#### **Features**

· Plastic molded structure

Peak reverse voltage: V<sub>RM</sub>=600V
Average output current: I<sub>O</sub>=50A

#### **Specifications**

Absolute Maximum Ratings at Tc=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V <sub>RM</sub>		600	V
Average Output Current	IO	50Hz sine 1cycle peak value, Tc=95°C, with heatsink	50	Α
Surge Forward Current	IFSM	50Hz sine wave, non-repetitive, 1cycle peak value, Tj=25°C	500	Α
Current Squared Time	l²t	1ms≤t<10ms, Tj=25°C, Rating of per diode	800	A <sup>2</sup> s
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-40 to +150	°C
Dilective Strength Voltage	Vdis	Terminals tc case, AC 1 minute	2	kV
Tightening Torque	TOR	( ): recommended value	0.8(0.6)	N•m

#### **Electrical Characteristics** at Tc=25°C Per Constituent element of bridge.

Parameter Symbol	Symbol	Conditions	Ratings			Unit
	Conditions	min	typ	max	Oill	
Forward Voltage	VF	IF=25A			1.05	V
Reverse Current	IR	V <sub>R</sub> =600V			10	μΑ
Thremal Resistance	Rth(j-c)	With heatsink (Junction-Case)			0.5	°C/W

Marking: BA500G

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#### SANYO Semiconductor Co., Ltd.

http://semicon.sanyo.com/en/network

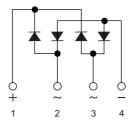
#### **DBA500G**

#### **Package Dimensions**

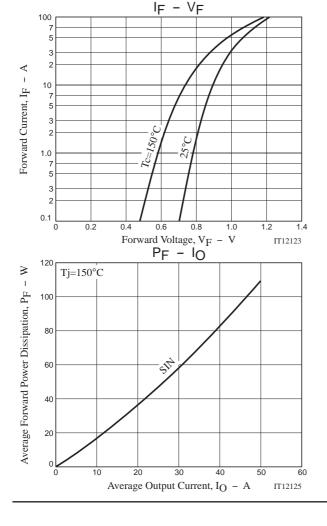
unit : mm (typ) 7806-001

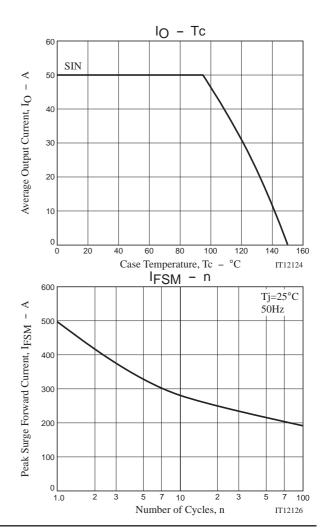
#### 36.0MAX 24.0MAX 13.1 12.5 11.5MAX 9.0 7.0 5.0 R1.75 C3.7 13.1 36.0MAX ∖<u>ø1.8</u> • 4 Ø3.5 7.0 12.8

#### **Electrical Connection**



\*: In case of over 30A of IO. bigger fasten hole should be filled by solder. Lead-Wire with solder connection also requested for over 30A of IO.





#### **DBA500G**

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