

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

B04AF THRU B04MF

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 0.4 Ampere

FEATURES

- * Ideal for automated placement
- * Low profile space
- * Low forward voltage grop
- * Low leakage current
- * High forward surge capability
- * Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant

* Terminals: MIL-STD-202E, Method 208 guaranteed

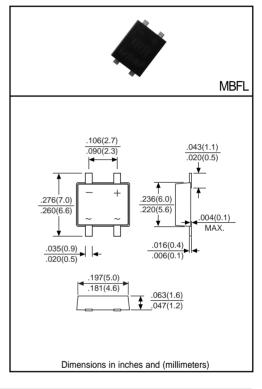
* Polarity: Symbols molded or marked on body

* Mounting position: Any

* Weight: 0.12 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	B04AF	B04BF	B04DF	B04GF	B04JF	B04KF	B04MF	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current		lo	0.4							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave		IFSM	20							Amps
superimposed on rated load (JEDEC Method)										
Maximum DC Forward Voltage Drop per Bridge		VF	1.1							Volts
Element at 0.4A DC										
Maximum Reverse Current at rated	@TA = 25°C	IR	5.0							μAmps
DC Blocking Voltage per element	@Ta = 125°C	T IR	100							
Typical Thermal Resistance (Note 2)		Reja	105							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to + 150							°C

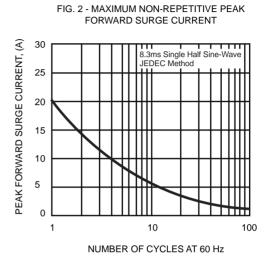
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

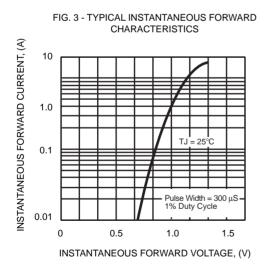
2. On P.C.B. with 0.05 x0.05" (1.3x1.3mm) copper pads.

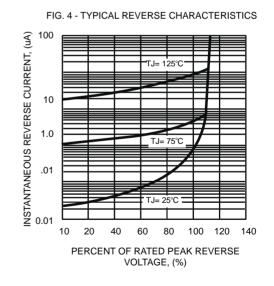
REV-3,MAR,2017 1 www.dccomponents.com

RATING AND CHARACTERISTIC CURVES (B04AF THRU B04MF)

FIG. 1 - DERATING CURVE FOR OUTPUT CURRENT 0.5 AVERAGE FORWARD CURRENT, (A) 0.4 0.3 0.2 0.1 Single Phase Half Wave 60Hz Resistive or Inductive Load 0 0 50 100 150 AMBIENT TEMPERATURE, (°C)







Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* are harmless against all damages.

DC COMPONENTS disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on DC COMPONENTS's knowledge of typical requirements that are often placed on DC COMPONENTS products in generic applications. Such statements are not binding statements about the suitability of products for aparticular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

DC COMPONENTS reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify *DC COMPONENTS* s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.



REV-3,MAR,2017 3 www.dccomponents.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers category:

Click to view products by DC Components manufacturer:

Other Similar products are found below:

MB2510 MB356G MB358G MP358-BP GBJ1504-BP GBU15J-BP GBU15K-BP GBU4A-BP GBU4D-BP GBU6B-E3/45 GSIB680-E3/45

DB101-BP DF01 DF10SA-E345 BU1508-E3/45 KBPC50-10S RS405GL-BP G5SBA60-E3/51 GBJ1502-BP GBU10J-BP GBU4J-BP

GBU6M GBU8D-BP GBU8J-BP GSIB1520-E3/45 2KBB10 36MB140A TB102M MB1510 MB258 MB6M-G MB86 TL401G

MDA920A2 TU602 TU810 BR1005-BP BR101-BP BR84DTP204 BU2006-E3/45 BU2008-E3/51 36MB100A 36MT160 36MT60

KBPC25-02 VS-2KBB60 DBB08G-TM-E DBD250G DBF20G DF06SA-E345