

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

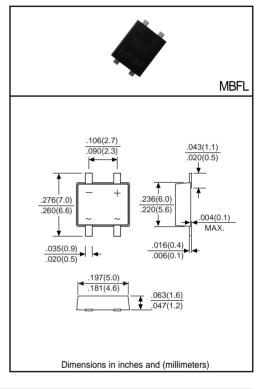
* Polarity: Symbols molded or marked on body

* 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

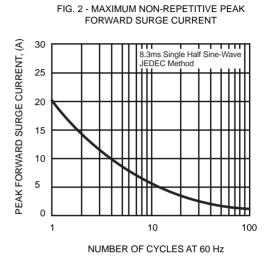
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

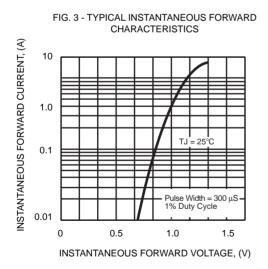
2. On P.C.B. with 0.05 x0.05" (1.3x1.3mm) copper pads.

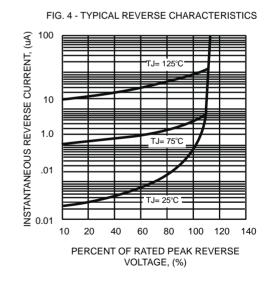
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RATING AND CHARACTERISTIC CURVES (B04AF THRU B04MF)

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)







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