

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SURFACE MONT BRIDGE RECTIFIER

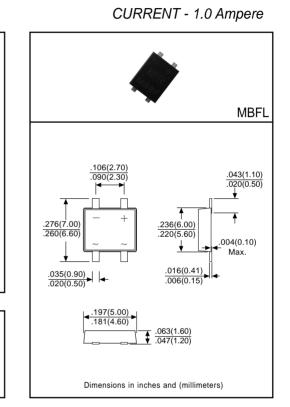
VOLTAGE RANGE - 50 to 1000 Volts

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

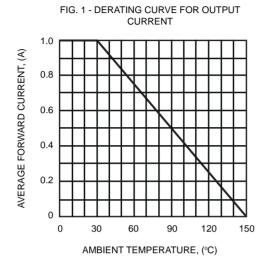
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		SYMBOL	B1AF	B1BF	B1DF	B1GF	B1JF	B1KF	B1MF	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 at TA = 30°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave		Ігѕм	35							Amps
superimposed on rated load (JEDEC Method)										
Maximum DC Forward Voltage Drop per Bridge		VF	1.1							Volts
Element at 1.0A DC										
Maximum Reverse Current at rated	@TA = 25°C	la.	IR 5.0							μAmps
DC Blocking Voltage per element	@TA = 125°C	я	100							μπηρε
Typical Junction Capacitance (Note1)		CJ	25						pF	
Typical Thermal Resistance (Note 2)		RθJA	85							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-50 to + 150							٥C

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

2. On glass epoxy P.C.B. with 0.05 x 0.05" (1.3x1.3mm) copper pads.

RATING AND CHARACTERISTIC CURVES (B1AF THRU B1MF)



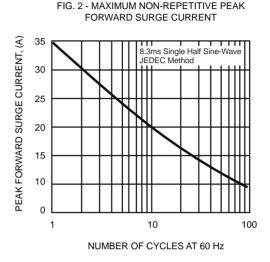


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

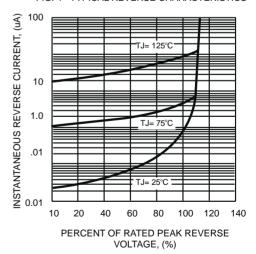


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS INSTANTANEOUS FORWARD CURRENT, (A) 10 1.0 TJ = 25°C 0.1 Pulse Width = 300 uS 1% Duty Cycle 0.01 .4 .6 .8 1.0 1.2 1.4 INSTANTANEOUS FORWARD VOLTAGE, (V)

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