

Voltage Range - 50 to 1000V

Forward Current - 40 Amperes

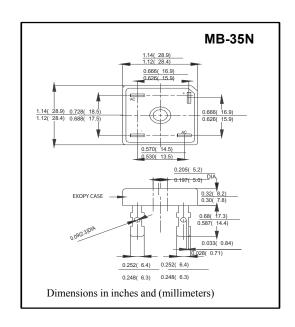
SINGLE PHASE BRIDGE RECTIFIER

FEATURES

- Low cost
- This series is UL recognized
- High forward surge current capability
- Ideal for printed circuit board
- High isolation voltage from case to leads
- High temperature soldering guaranteed: 260 oC/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Molded plastic body
- Terminal: Plated 0.25" (6.35mm) lug.
- Polarity: Polarity symbols marked on case
- Mounting: Thru hole for #10 screw, 20 in.-lbs torque max.
- Weight:1.02 ounce, 29 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	MB4005	MB401	MB402	MB404	MB406	MB408	MB4010	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at T _C =55°C (See FIG.1)	$I_{(AV)}$	40							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							Amps
Rating for Fusing(t<8.3ms)	I^2T	664							A^2S
Maximum Instantaneous Forward Voltage at 20.0A	V_{F}	1.1							Volts
Maximum DC Reverse Current at T _A =25 °C	I_R	10							μAmps
rated DC blocking voltage $T_A = 100^{\circ}C$		1.0							mAmps
Isolation Voltage from case to lugs	ISOV	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)	$R_{\theta JC}$	1.4							°C/W
Operating Temperature Range	Tı	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES:

- 1. Unit mounted on 9"×3.5"×4.6"(23×9×11.8cm) Al. finned plate.
- 2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

Email: sales@micindia.com Website: www.micindia.com

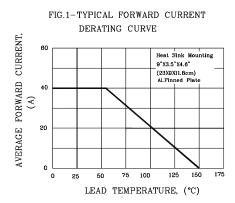


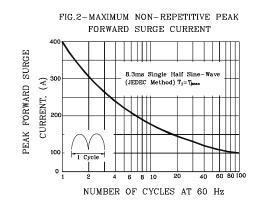
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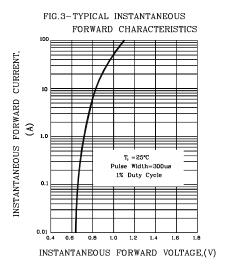
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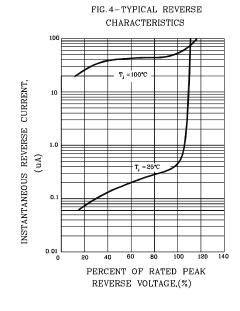
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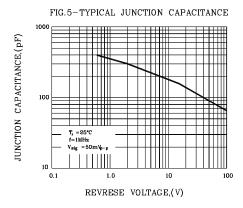
RATING AND CHARACTERISTIC CURVES MB4005 - MB4010











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