

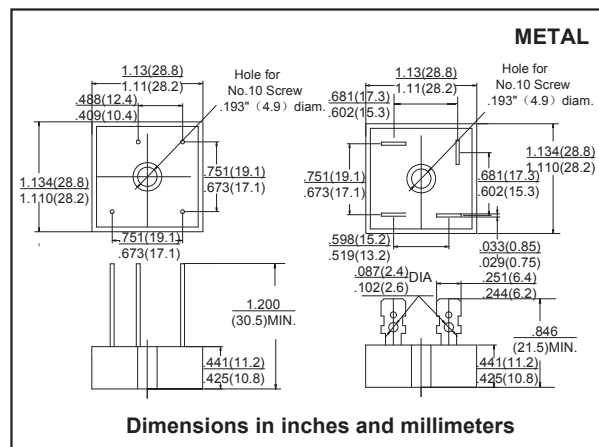
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES

- Glass Passivated Chip
- High forward surge current capability low thermal resistance
- High isolation voltage from case to lugs.
- High temperature soldering guaranteed:
260 °C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Molded 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: 0.84ounce, 24gram



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	MB5005	MB501	MB502	MB504	MB506	MB508	MB5010	UNIT
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 $T_C = 50^{\circ}C$ (Note1, 2)		$I_{(AV)}$	50							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)		I_{FSM}	500							Amps
Rating for Fusing ($t < 8.3ms$)		I^2t	1040							A^2s
Maximum Instantaneous Forward Voltage Drop per bridge element at 25A		V_F	1.1							
Maximum DC Reverse Current at rated	$T_A = 25^{\circ}C$	I_R	10							μAmp
DC blocking voltage per element	$T_A = 100^{\circ}C$		1.0							mAmp
Isolation Voltage from case to lugs		V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1, 2)		R_{JC}	0.7							$^{\circ}C/W$
Operating Temperature Range		T_J	(-65 to +125)							$^{\circ}C$
Storage Temperature Range		T_{STG}	(-65 to +150)							

NOTES :

1. Unit Mounted on 9" X 3.5" X 4.6" (23 X 9 X 11.8cm) Al. finned plate.
2. Bolt down on heatsink with silicon thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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CHARACTERISTICS (TYPICAL)

FIG1: I_o - T_a Curve

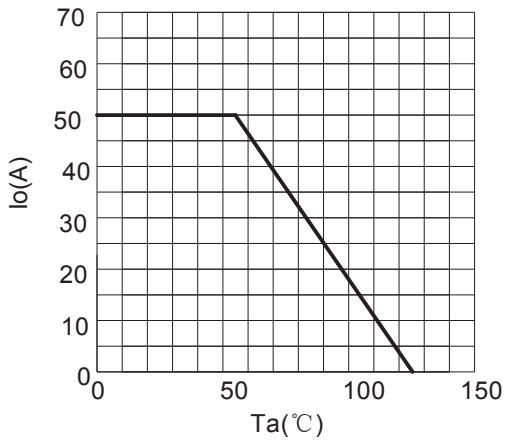


FIG2: Surge Forward Current Capability

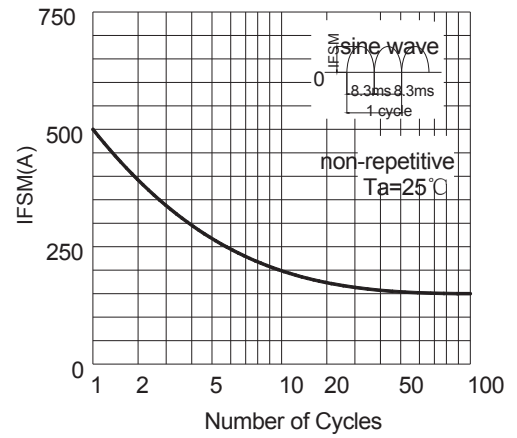


FIG3: Instantaneous Forward Voltage

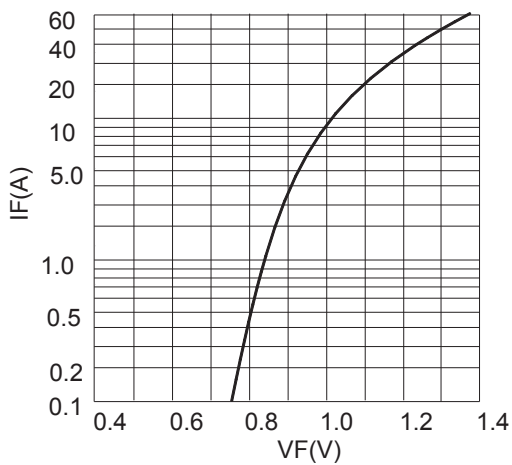
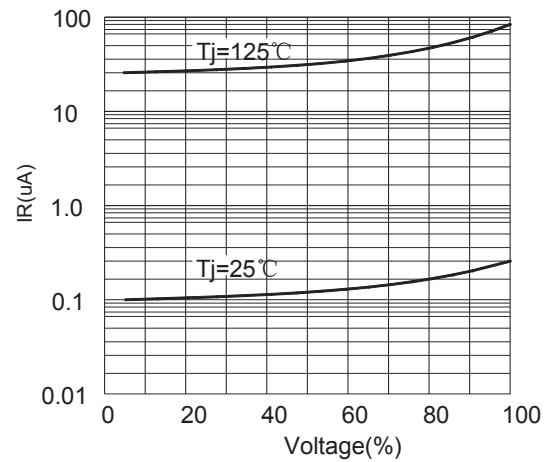


FIG4: Typical Reverse Characteristics



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.