



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**MB3505
THRU
MB3510**

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 35 Amperes

FEATURES

- * Metal case for Maximum Heat Dissipation
- * Surge overload ratings - 400 Amperes
- * Low forward voltage drop

MECHANICAL DATA

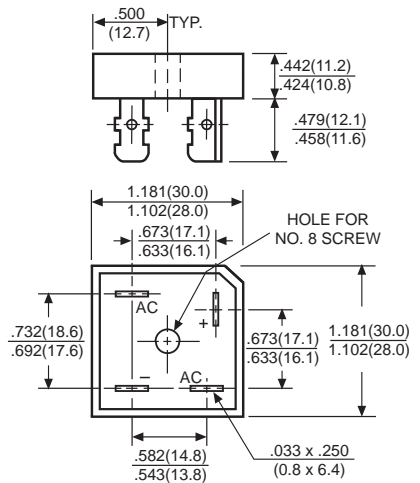
- * Case: Molded plastic with heatsink
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Plated .25"(6.35mm) Faston lugs, Solderable per MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 30 grams approx.

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%.



MB-25



Dimensions in inches and (millimeters)

	SYMBOL	MB3505	MB351	MB352	MB354	MB356	MB358	MB3510	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 $T_c = 55^\circ C$	I_o	35							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}					400			Amps
Maximum Forward Voltage Drop per element at 5.0A DC	V_F					1.1			Volts
Maximum DC Reverse Current at Rated	I_R					10			μ Amps
DC Blocking Voltage per element						500			
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t					664			A^2Sec
Typical Junction Capacitance (Note 1)	C_J					300			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$					2.2			$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}					-55 to +150		$^\circ C$	

NOTES : 1.Measured at 1 MHZ and applied reverse voltage of 4.0 volts
2.Thermal Resistance from junction to Case per leg.

RATING AND CHARACTERISTIC CURVES (MB3505 THRU MB3510)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

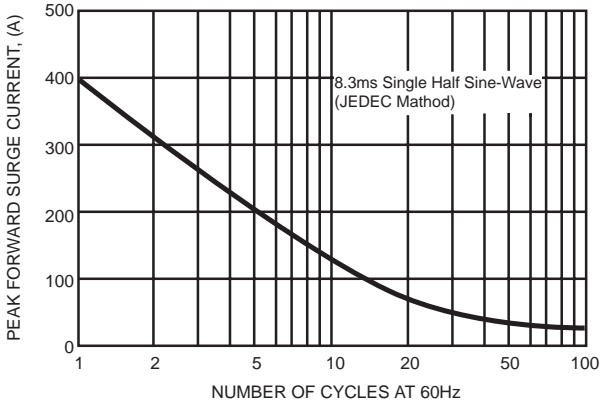


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

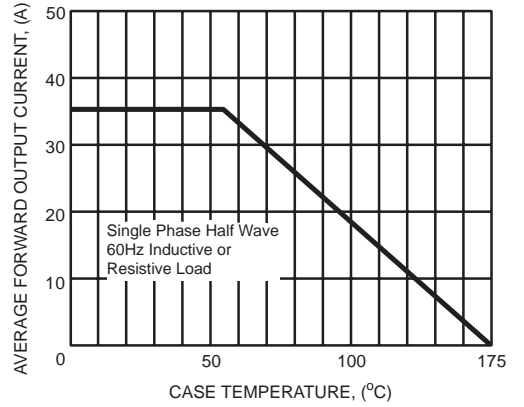


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

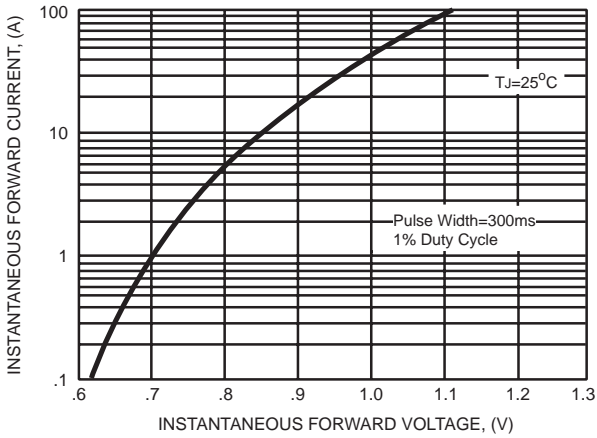
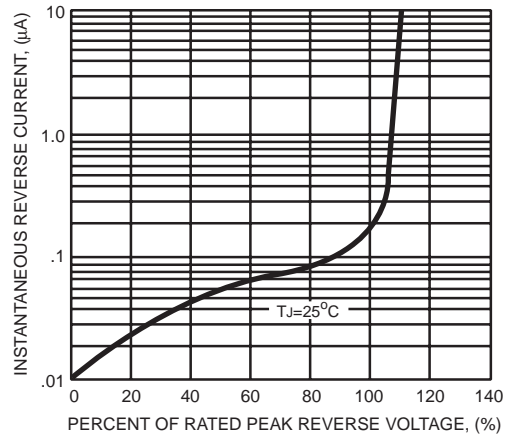


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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