

MB3505~MB3510

BRIDGE RECTIFIERS

VOLTAGE 50 to 1000 Volt **CURRENT** 35 Ampere

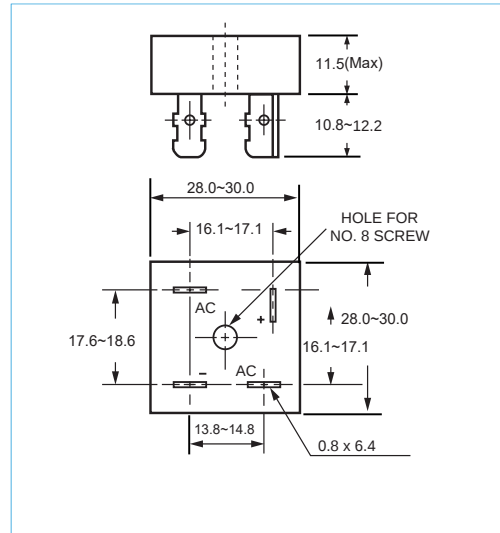
MB-35 Unit:mm

FEATURES

- High Conductivity Metal Case
- Low Power Loss
- Low Reverse Leakage Current
- High Efficiency
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MB3505	MB351	MB352	MB354	MB356	MB358	MB3510	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	35							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	400							A
Maximum Forward Voltage at 17.5 A	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	I_R	10 500							μA
Thermal Resistance (Note1)	$R_{\theta JC}$	1.0							$^\circ\text{C} / \text{W}$
I^2t Rating for fusing	I^2t	664							A^2S
Operating Junction Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES:

1. Thermal resistance junction to case mounted on heatsink.

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RATING AND CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

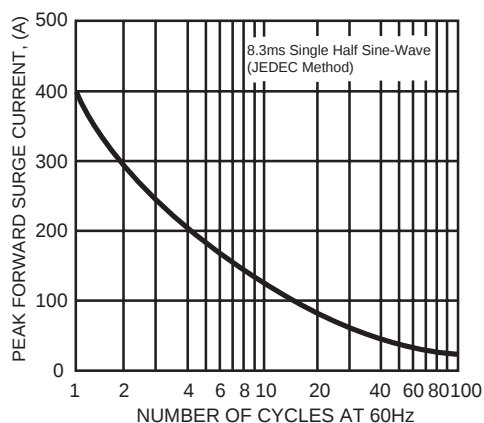


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

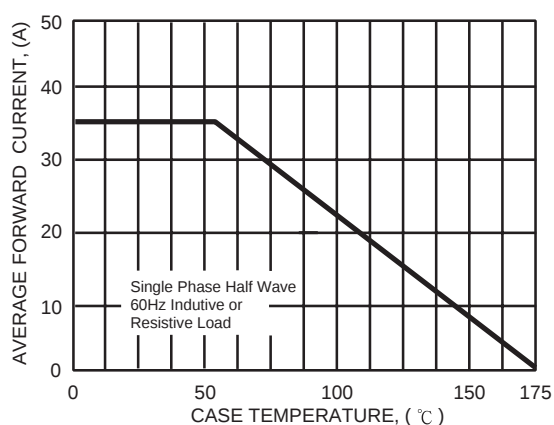


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

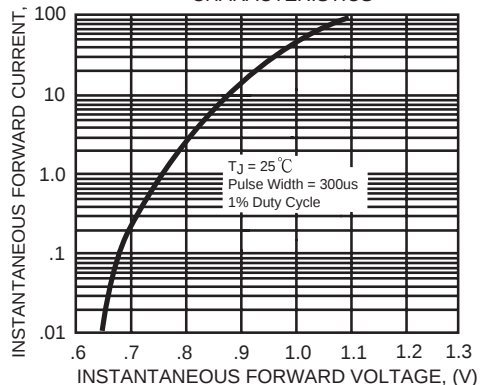
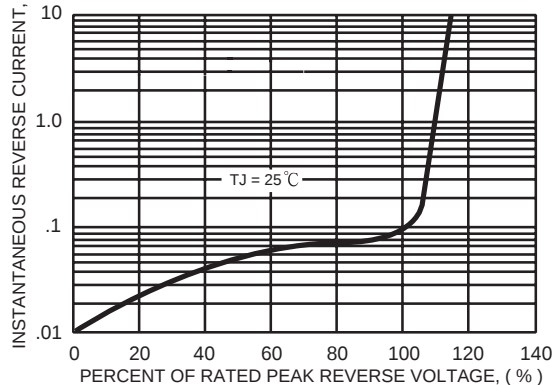


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
MB3505~MB3510	MB-35	BULK	500/Ctn