



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

**MMB3505W
THRU
MMB3510W**

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER
VOLTAGE RANGE - 50 to 1000 Volts **CURRENT - 35 Amperes**

FEATURES

- * Metal case for Maximum Heat Dissipation
- * Diffused Junction
- * High current capability
- * Surge overload ratings - 400 Amperes
- * Low forward voltage drop
- * High Reliability

MECHANICAL DATA

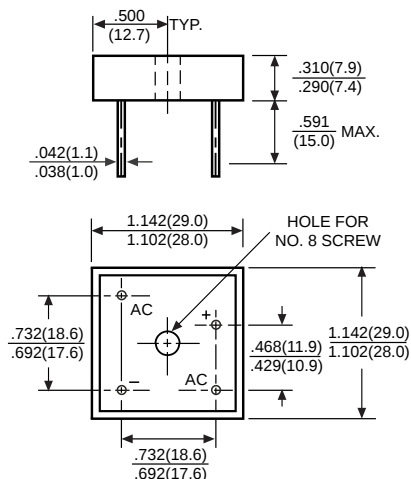
- * Case: Metal case, electrically isolated
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 25 grams approx.

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%.



MMB-25W



Dimensions in inches and (millimeters)

		MMB 3505W	MMB 351W	MMB 352W	MMB 354W	MMB 356W	MMB 358W	MMB 3510W		
	SYMBOL								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 Rectified Output Current at Tc = 55°C		Io	35							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	400							Amps
Maximum Forward Voltage Drop per element at 17.5A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated	@ TA = 25°C	IR	10							μAmps
DC Blocking Voltage per element	@ TA = 100°C		500							
I²t Rating for Fusing (t<8.3ms)		I²t	664							A²Sec
Typical Junction Capacitance (Note1)		CJ	300							pF
Typical Thermal Resistance (Note 2)		RθJC	2.2							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150							°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 (MMB3505W THRU MMB3510W)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

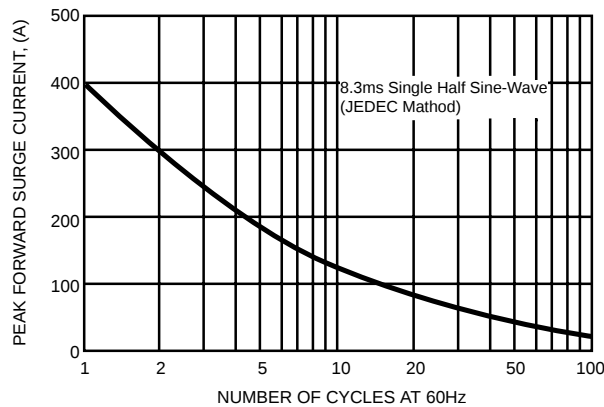


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

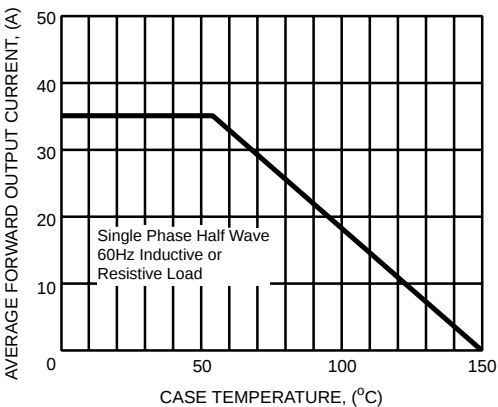


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

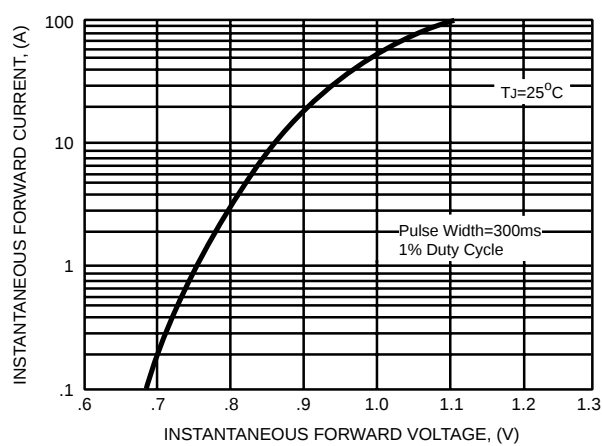


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

