DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

MMB1505W THRU MMB1510W

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

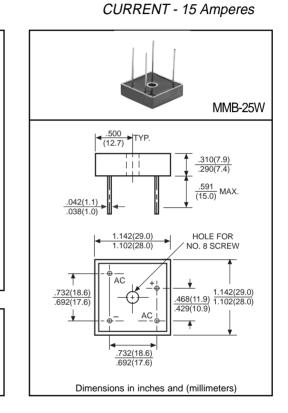
- * Metal case for Maximum Heat Dissipation
- * Diffused Junction
- * High current capability
- * Surge overload ratings 300 Amperes
- * Low forward voltage drop
- * High Reliability

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	MMB	MMB	MMB	MMB	MMB	MMB	1
		SYMBOL	1505W	151W	152W	154W	156W	158W	1510W	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 = 50°C		lo	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	300							Amps
Maximum Forward Voltage Drop per element at 7.5A DC		Vf	1.1							Volts
Maximum DC Reverse Current at Rated	@Ta = 25°C	la la	10							– μAmps
DC Blocking Voltage per element	@TA = 100°C	IR	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	374							A ² Sec
Typical Junction Capacitance (Note1)		CJ	300							pF
Typical Thermal Resistance (Note 2)		Rejc	2.5							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							٥C

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 (MMB1505W THRU MMB1510W)

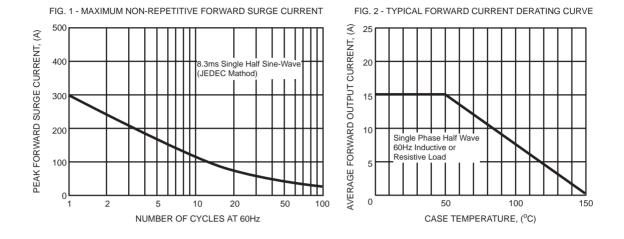


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

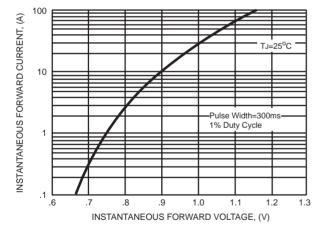
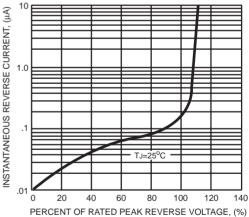


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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