

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

BR2505W

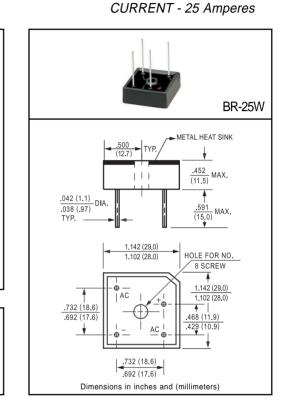
BR2510W

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

- * Plastic case with heatsink 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
- *Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 30 grams

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%.

		SYMBOL	BR2505W	BR251W	BR252W	BR254W	BR256W	BR258W	BR2510W	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		lo	25							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 12.5A DC		VF		1.1						Volts
Maximum DC Reverse Current at Rated	@Ta = 25°C	1-		10						
DC Blocking Voltage per element	@TA = 100°C	- IR	500							uAmps
I ² t Rating for Fusing (t<8.3ms)		l ² t	374							A ² Sec
Typical Junction Capacitance (Note1)		CJ		300						рF
Typical Thermal Resistance (Note 2)		RθJC		2.5						°C/W
Operating and Storage Temperature Range		TJ,TSTG		-55 to + 150						۰C

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Case per leg.

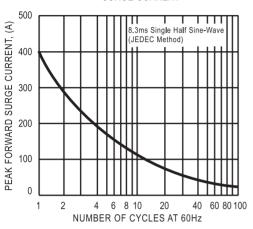


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

