



SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

FEATURES Superior thermal desing 300 amperes surge rating 1/4' universal faston terminal Hole thru for #8 screw MCCHANICAL DATA PLOCAN <li

BR-15W

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%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	BR1505	BR151	BR152	BR154	BR156	BR158	BR1510	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 Current at T_{C} = 55°C	IO	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300							Amps
Typical Thermal Resistance (Note 2)	R _{0JC}	5							∘c/w
	R _{0JA}	22							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							٥C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	BR1505	BR151	BR152	BR154	BR156	BR158	BR1510	UNITS
Maximum Instantaneous Forward Voltage at 7.5ADC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	la.	5.0							uAmps
	@T _C = 100°C	IR	500							

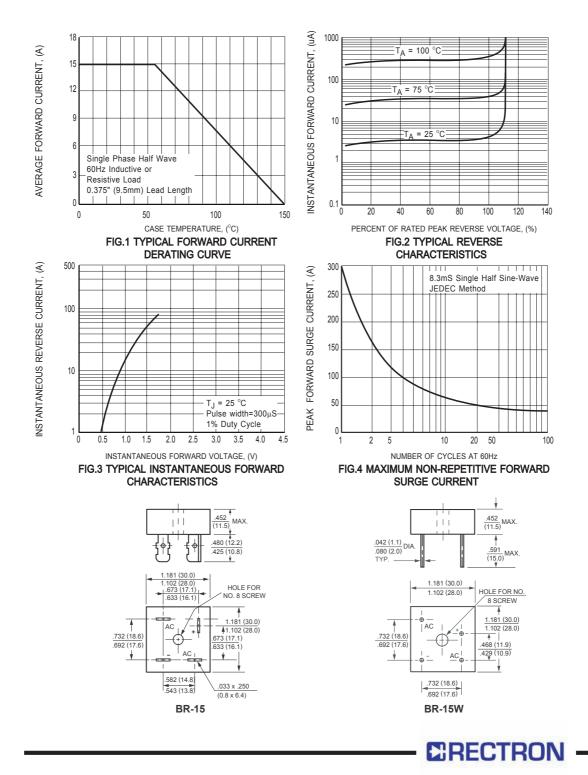
NOTES: 1. Suffix "W" for wire type.

2. Typical Thermal Resistance: Heat-sink case mounted.

3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2007-5

RATING AND CHARACTERISTICS CURVES (BR1505 THRU BR1510)



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