

# BR1505 THRU BR1510

# 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

#### **MECHANICAL DATA**

- \* Epoxy : Device has UL flammability classification 94V-0
- \* UL listed the recongnized component director, file #94233

#### **DISCONTINUED-**

"This series is replaced by the MP15 series that meets to the same fit and function parameters.

The MP15 series is preferred for PCB assembly."



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 <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> = 55°C	Io	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	300							Amps
Typical Thermal Resistance (Note 2)	R <sub>⊎JC</sub>	5							· °C/W
	R <sub>θJA</sub>	22							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							°C

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

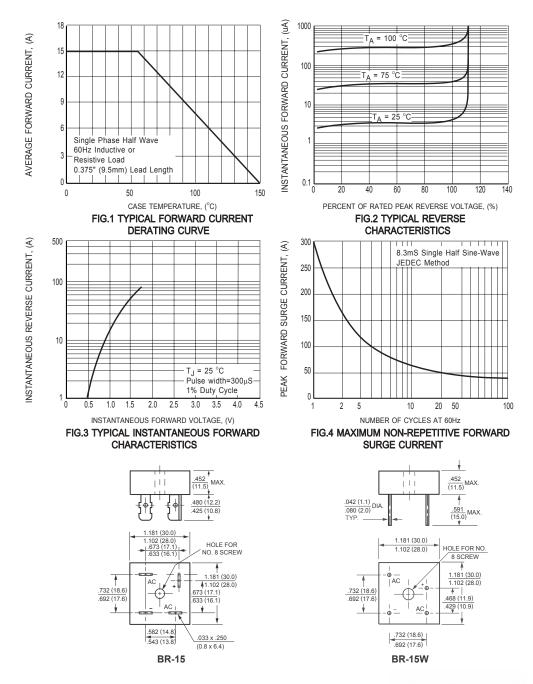
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CHARACTERISTICS		SYMBOL	BR1505	BR151	BR152	BR154	BR156	BR158	BR1510	UNITS
Maximum Instantaneous Forward Voltage at 7.5A DC		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	lo.	5.0							- uAmps
	@T <sub>A</sub> = 100°C	lR 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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