

BR-25W

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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	BR2505	BR251	BR252	BR254	BR256	BR258	BR2510	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 Current at $T_{C}$ = 55°C	lo	25.0							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 <sub>0JC</sub>	4							• °C/W
	R <sub>0JA</sub>	22							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							٥C

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

CHARACTERISTICS		SYMBOL	BR2505	BR251	BR252	BR254	BR256	BR258	BR2510	UNITS
Maximum Instantaneous Forward Voltage at 12.5ADC		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	-	5.0							uAmps
	@T <sub>A</sub> = 100°C	IR	500							

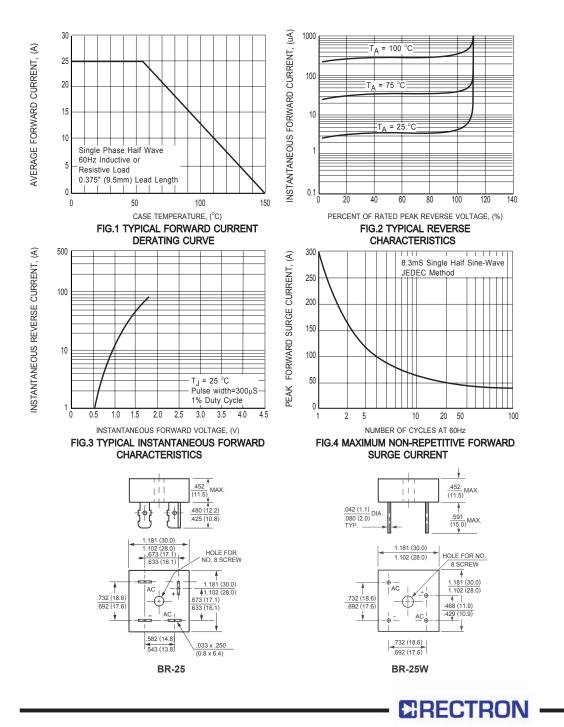
NOTES: 1. Suffix "W" for wire type.

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

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

2007-5

## RATING AND CHARACTERISTICS CURVES (BR2505 THRU BR2510)



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