



Powerex, Inc., 200 Hillis Street, Youngwood, Pennsylvania 15697-1800 (412) 925-7272
Powerex, Europe, S.A. 428 Avenue G. Durand, BP107, 72003 Le Mans, France (43) 41.14.14

R700/R701
General Purpose Rectifier
300-550 Amperes Average, 4400 Volts

Absolute Maximum Ratings

Characteristics	Symbol	R700_ _03,	R700_ _04,	R700_ _05,	Units
		R701_ _03	R701_ _04	R701_ _05	
RMS Forward Current	$I_{F(rms)}$	470	700	865	Amperes
Average Forward Current	$I_{F(av)}$	300	450	550	Amperes
One-half Cycle Surge Current	I_{FSM}	7000	8500	10000	Amperes
3 Cycle Surge Current	I_{FSM}	5250	6400	7500	Amperes
10 Cycle Surge Current	I_{FSM}	4200	5100	6000	Amperes
I^2t (for Fusing), Times = 8.3 milliseconds	I^2t	204000	266000	416500	A^2sec
Storage Temperature	T_{stg}	-65 to +200	-65 to +200	-65 to +200	$^{\circ}C$
Operating Temperature	T_j	Up to 1400V	1400V to 2200V	2200V to 4400V	$^{\circ}C$
		-65 to +200	-65 to +175	-65 to +150	
Mounting Torque		360	360	360	in-lb