



Ruttonsha International Rectifier Ltd.

ULTRA FAST RECOVERY DIODE MODULE

RIRP 200/06F

FEATURES

- * *Ultrafast Reverse recovery Time*
- * *Fully molded package to prevent humidity penetration.*
- * *Low leakage current and low forward voltage.*
- * *Surge overload ratings to 1500Amps.*
- * *Non - Isolated Module*

APPLICATIONS

- * *Inversion Welder*
- * *Uninterrupted Power Supply (UPS) .*
- * *Plating Power Supply.*
- * *Ultrasonic Cleaner and Welder.*
- * *Conveter and Chopper.*
- * *Power factor Correction (PFC) Circuit.*

MAJOR RATINGS & CHARACTERISTICS

Parameters	RIRI 200...F	Units
$I_{F(AV)}$ @ $T_C = 100\text{ }^\circ\text{C}$ (Per Module)	200	A
I_{FSM} $T_C = 25^\circ\text{C}$	1500	A
V_{RRM} range	UP TO 600	V
T_J	-40 to 150	$^\circ\text{C}$

ULTRA FAST RECOVERY DIODE MUDULE

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ELECTRICAL SPECIFICATION VOLTAGE RATINGS

Type Number	Voltage Code	V_{RRM} , max. repetitive peak reverse and off-state voltage blocking voltage V	V_{RSM} , max. non-repetitive peak reverse voltage V	I_{RRM} max. @ μA	
				25°C	125°C
RIRP 200...F	06	600	700	5	500

FORWARD CONDUCTION

	Parameters	RIRP 200...F		Units	Conditions
$I_{F(DC)}$	Continuous Forward Current per Module	200		A	$T_c = 25^\circ C$
I_{FSM}	Non-repetitive surge forward current	1500		A	50Hz, 10mS.
V_{FM}	Max. forward voltage drop	Typ. 1.1 1.3	Max, 1.4 1.6	V V	$T_c = 25^\circ C$ $I_F = 100A,$ $I_F = 200A,$
trr	Reverse recovery time	50		ns	$I_F = 1A, 200 A/micro - S, V_R = 30V, T_J = 25^\circ C$

THERMAL AND MECHANICAL SPECIFICATIONS

	Parameters	RIRP 200...F	Units	Conditions
T_J	Junction operating temperature	-40 to 150	$^\circ C$	
T_{stg}	Storage temperature range	-40 to 125	$^\circ C$	
R_{thj-c}	Max. internal thermal resistance, junction to case Per Diode Per Module	0.20 0.095	$^\circ C/W$	
T	Mounting torque	3 - 4.7	Nm	
Wt	Approximate weight	70	g	

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OUTLINE DIAGRAM

