

Features:

- n Super fast recovery
- n Max junction temperature to 175°C
- n Low forward voltage drop

Typical Applications:

- n Inverter Welding Power Supply
- n Power Supply for Telecommunication
- n Various Switching Power Supply

$I_{F(AV)}$	200A
V_{RRM}	200V
I_{FSM}	0.8 KA
I^2t	3.2 $10^3 A^2S$

CHARACTER SYSTEM	SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_J(^{\circ}C)$	VALUE			UNIT
					Min	Type	Max	
Rating	$I_{F(AV)}$	Mean forward current	Whole thyristor($T_c=130^{\circ}C$)				200	A
			Each arm($T_c=130^{\circ}C$)				100	
	$I_{F(RMS)}$	RMS forward current		175			314	A
	V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+200V$	125			200	V
	I_{FRM}	Repetitive peak forward current	Each arm(rating square wave20KHz)	90			200	A
	I_{FSM}	Surge forward current	Each arm(10ms half sine wave, single pulse)	125			0.8	KA
	I^2t	I^2t value					3.2	$A^2s \cdot 10^3$
T_{stg}	Storage temperature			-55		175	$^{\circ}C$	
Heat Characteristic	$R_{th(j-c)}$	Thermal resistance junction to case	Each arm(10ms half sine wave, single side cooled)				0.45	$^{\circ}C/W$
Electricity Characteristic	V_{FM}	Peak forward voltage	Each arm @ $I_{TM}=100A$	25			1.0	V
	I_{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM}$	125			1000	μA
				25			150	μA
t_{rr}	Reverse recovery time		25			50	ns	
Mechanical Characteristic	F_m	Thermal connection torque				3.0		N·m
		Mounting torque (M6)				6.0		N·m
	W_t	Weight					80	g
Outline		302F3						

Outline:

