

**3AD200 3KD200 Charged part to case non-isolated**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>C</sub> =100°C	150			200	A
I <sub>F(RMS)</sub>	RMS forward current	Single side cooled, T <sub>C</sub> =100°C	150			314	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>DRM</sub> &V <sub>RRM</sub> +200V	150	600		1800	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			20	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	150			8.0	KA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				326.4	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			0.80	V
r <sub>F</sub>	Forward slop resistance					0.96	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =600A	25			1.50	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to heatsink	Single side cooled				0.200	°C /W
F <sub>m</sub>	Terminal connection torque(M5)					3.0	N·m
	Mounting torque(M6)					3.0	N·m
T <sub>stg</sub>	Stored temperature			-40		125	°C
W <sub>t</sub>	Weight					340	g
Outline	206F4						

**OUTLINE DRAWING & CIRCUIT DIAGRAM**



