

3AD50 3KD50 Charged part to case non-isolated

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Single side cooled, T _C =100°C	150			50	A
I _{F(RMS)}	RMS forward current	Single side cooled, T _C =100°C	150			79	A
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{DRM} &V _{RRM} +200V	150	600		1800	V
I _{RRM}	Repetitive peak current	at V _{RRM}	150			8	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			1.90	KA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}				18.4	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.80	V
r _F	Forward slop resistance					4.78	mΩ
V _{FM}	Peak forward voltage	I _{FM} =150A	25			1.60	V
R _{th(j-c)}	Thermal resistance Junction to heatsink	Single side cooled				0.700	°C /W
F _m	Terminal connection torque(M5)					2.0	N·m
	Mounting torque(M6)					3.0	N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight					220	g
Outline	208F4						

OUTLINE DRAWING & CIRCUIT DIAGRAM



