

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _J (°C)	VALUE			UNIT
				Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Double side cooled, T _{hs} =55°C	150			522	A
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Double side cooled, T _{hs} =90°C	150			377	A
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	200		1000	V
I _{RRM}	Repetitive peak current	at V _{RRM}	150			16	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			2.7	KA
I ² T	I ² T for fusing coordination	V _R =0.6V _{RRM}				40	A ² s*10 ³
V _{FO}	Threshold voltage		150			1.10	V
r _F	Forward slop resistance					0.72	mΩ
V _{FM}	Peak on-state voltage	I _{TM} =600A, F=5.0KN	150			1.53	V
I _m	Reverse recovery current	I _{TM} =600A, tp=1000μs, di/dt=-40A/μs, V _R =50V	150		40		A
t _{rr}	Reverse recovery time				1.8		μs
Q _{rr}	Recovery charge				36	50	μC
R _{th(j-h)}	Thermal resistance Junction to heatsink	At 180° sine double side cooled Clamping force 5.0KN				0.090	°C /W
F _m	Mounting force			3.3		5.5	KN
T _{stg}	Stored temperature			-40		160	°C
W _t	Weight				50		g
Outline	ZT19aT						

Outline

