

Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

Typical Applications

- Inverters and choppers
- AC. motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ **197A**
 V_{RRM} **4000~5000V**
 t_{rr} **10 μ s**



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 _C =85°C	150			197	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	150	4000		5000	V
I_{RRM}	Repetitive peak current	at V _{RRM}	150			25	mA
I_{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			2.7	kA
I^2t	I ² t for fusing coordination					36.5	A ² s*10 ³
V_{FO}	Threshold voltage		150			1.95	V
r_F	Forward slop resistance					4.50	mΩ
V_{FM}	Peak forward voltage	I _{TM} =300A, F=5.0kN	25			3.80	V
I_{rm}	Reverse recovery current	I _{TM} =1000A, tp=1000 μ s, di/dt=-60A/ μ s, V _R =50V	150		40		A
t_{rr}	Reverse recovery time				10		μ s
Q_{rr}	Recovery charge				80	100	μ C
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 5.0kN				0.080	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.020	
F_m	Mounting force			3.3		5.5	kN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				60		g
Outline	ZT19aT						

Outline:

