

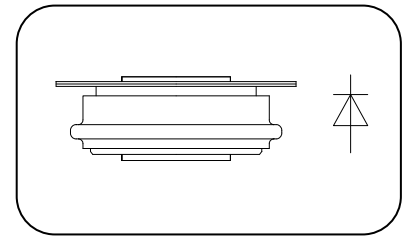
Features

- 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

$I_{F(AV)}$ **390A**
 V_{RRM} **1100~2000V**
 t_{rr} **2.0 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 =55°C			510	A
			T _C =85°C			390	
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	1100		2000	V
I _{RRM}	Repetitive peak current	V _{RM} = V _{RRM}	150			16	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			5.4	kA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}				146	A ² s*10 ³
V _{FO}	Threshold voltage		150			1.48	V
r _F	Forward slop resistance					0.65	mΩ
V _{FM}	Peak on-state voltage	I _{TM} =600A, F=5.0kN	150			1.90	V
I _{rm}	Reverse recovery current	I _{TM} =1000A, tp=2000 μ s, -di/dt=60A/ μ s, V _R =50V	150		50		A
t _{rr}	Reverse recovery time				2.0		μ s
Q _{rr}	Recovery charge				50	70	μ C
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force5.0kN	150			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

