

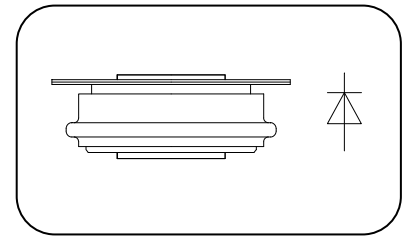
Features

- 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

$I_{F(AV)}$ **430A**
 V_{RRM} **200~1000V**
 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			560	A
			T _C =85°C			430	
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	200		1000	V
I _{RRM}	Repetitive peak current	V _{RM} = V _{RRM}	150			16	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			5	kA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}				125	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			1.6	V
I _{rm}	Reverse recovery current	I _{TM} =1000A, tp=2000μs, di/dt=-60A/μs, V _R =50V	150		36		A
t _{rr}	Reverse recovery time				2.0		μs
Q _{rr}	Recovery charge				36	50	μC
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:

