

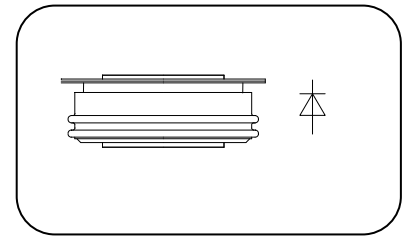
Features

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

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ **710A**
 V_{RRM} **1100~2000V**
 t_{rr} **3.0 μ s**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	150			930	A
						710	
						400	
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			30	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			9	kA
I^2t	I^2t for fusing coordination	$V_R = 0.6V_{RRM}$				405	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		150			1.30	V
r_F	Forward slop resistance					0.42	m Ω
V_{FM}	Peak on-state voltage	$I_{TM} = 1200A, F = 7.0kN$	150			1.80	V
I_{rm}	Reverse recovery current	$I_{TM} = 1000A, tp = 1000\mu s,$ $-di/dt = 60A/\mu s,$ $V_R = 50V$	150		42		A
t_{rr}	Reverse recovery time				3.0		μs
Q_{rr}	Recovery charge				63	90	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 7.0kN				0.045	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.010	
F_m	Mounting force			5.3		10	kN
T_{slg}	Stored temperature			-40		160	$^{\circ}C$
W_t	Weight				80		g
Outline	ZT25aT						

Outline:

