Features

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

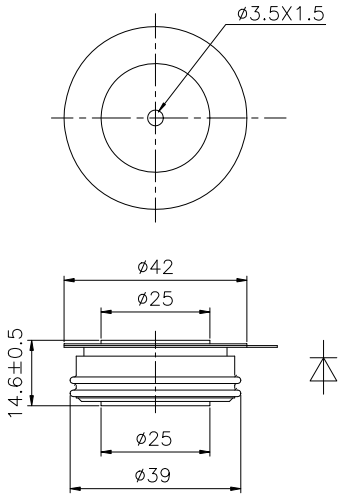
Typical Applications

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

Part No. Y30ZKB-ZT25aT				
$I_{F(AV)}$	**780A**			
V_{RRM}	**200V**	**400V**	**600V**	**800V**
	1000V			

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			780	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	200		1000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			40	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		150			10	kA
I^2t	I^2t for fusing coordination						500	A^2s*10^3
V_{FO}	Threshold voltage			150			1.17	V
r_F	Forward slope resistance						0.36	mΩ
V_{FM}	Peak forward voltage	I_{TM}=1200A, F=7.0kN		25			2.60	V
I_{rm}	Reverse recovery current	I_{TM}=1000A, tp=4000μs, di/dt=-60A/μs, V_R=100V		150		46		A
t_{rr}	Reverse recovery time					3.0		μs
Q_{rr}	Recovery charge					70	90	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine double side cooled Clamping force 7.0kN					0.045	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.010	
F_m	Mounting force				5.3		10	kN
T_{vj}	Junction temperature				-40		150	°C
T_{stg}	Stored temperature				-40		160	°C
W_t	Weight					80		g
Outline	ZT25aT							

Outline:



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