

**Features**

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

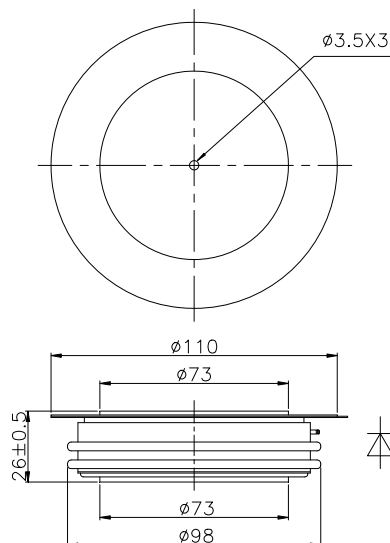
Typical Applications

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

Part No. Y76ZKD-ZT73cT

I_{F(AV)}	2570A	
V_{RRM}	2200V	2500V
	2800V	3000V

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _i (°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			2570	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		150	2100		3000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		150			200	mA
I _{FSM}	Surge forward current	10ms half sine wave		150			23	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					2645	A ² s*10 ³
V _{FO}	Threshold voltage			150			1.20	V
r _F	Forward slope resistance						0.21	mΩ
V _{FM}	Peak forward voltage	I _{FM} =3000A, F=35kN		150			1.90	V
I _{rm}	Reverse recovery current					300		A
t _{rr}	Reverse recovery time	I _{FM} =2000A, tp=4000μs, di/dt=-60A/μs, V _R =100V		150		5		μs
Q _{rr}	Recovery charge					750		μC
R _{th(j-c)}	Thermal resistance Junction to case	Double side cooled Clamping force 40kN					0.010	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink						0.003	
F _m	Mounting force				35		47	kN
T _{vj}	Junction temperature				-40		150	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					1100		g
Outline	ZT73cT							

Outline:

TECHSEM reserves the right to change specifications without notice.