



Features

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

Typical Applications

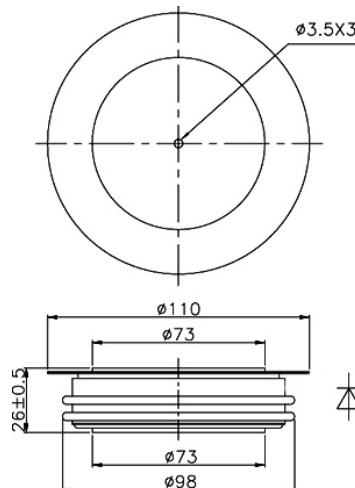
- n Inverters and choppers
- n Motor control
- n Snubber and free-wheeling diodes

Part No. Y76ZKC-ZT73cT

I_{F(AV)}	3560A
V_{RRM}	1200V 1400V
	1600V 1800V
	2000V

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			3560	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		150	1100		2000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		150			240	mA
I _{FSM}	Surge forward current	10ms half sine wave		150			44	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						9680
V _{FO}	Threshold voltage			150			0.95	V
r _F	Forward slope resistance							0.10
V _{FM}	Peak forward voltage	I _{TM} =5000A, F=40kN		25			3.00	V
I _{rm}	Reverse recovery current	I _{TM} =2000A, tp=4000μs, di/dt=-60A/μs, V _R =100V		150		310		A
t _{rr}	Reverse recovery time					7		μs
Q _{rr}	Recovery charge					1100	1300	μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force40kN					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.