

**Features**

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

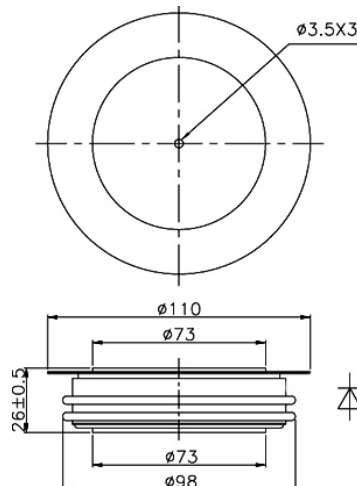
Typical Applications

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

Part No. 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	$t_p=10ms$	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^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				9680	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		150			0.95	V
r_F	Forward slope resistance					0.10	m Ω
V_{FM}	Peak forward voltage	$I_{TM}=5000A$, $F=40kN$	25			3.00	V
I_{rm}	Reverse recovery current	$I_{TM}=2000A$, $t_p=4000\mu s$, $di/dt=-60A/\mu s$, $V_R=100V$	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 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.