

**Features**

- n Low switching losses
- n Double-side cooling
- n Hermetically Cold-welded

**Typical Applications**

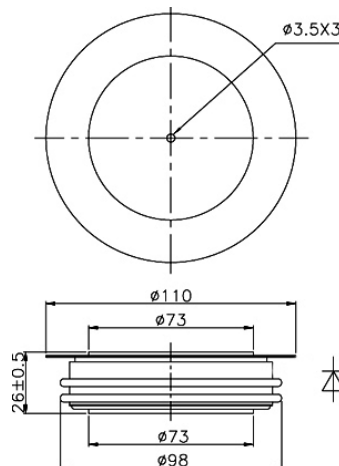
- n High power convertor
- n Motor drive equipment
- n Flexible AC transmission system

**Part No.H76ZYR-ZT73cT**

<b>I<sub>F(AV)</sub></b>	<b>800A</b>
<b>V<sub>RRM</sub></b>	<b>6000V 6500V</b>

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Double side cooled	T <sub>c</sub> =70°C	125		800	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	tp=10ms	125	6000		6500	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	125			300	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	125			18	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0				1620	10 <sup>3</sup> A <sup>2</sup> s
V <sub>FO</sub>	Threshold voltage		125			1.90	V
r <sub>F</sub>	Forward slope resistance					1.10	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =1800A, F=24kHz	25			4.80	V
I <sub>m</sub>	Reverse recovery current		125		900		A
t <sub>rr</sub>	Reverse recovery time	I <sub>TM</sub> =2000A, tp=4000μs, di/dt=-60A/μs, V <sub>R</sub> =100V			20		μs
Q <sub>rr</sub>	Recovery charge				5000		μC
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine, double side cooled Clamping force 24kN				0.010	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink					0.003	
F <sub>m</sub>	Mounting force			35		47	kN
T <sub>vj</sub>	Junction temperature			-40		125	°C
T <sub>stg</sub>	Stored temperature			-40		140	°C
W <sub>t</sub>	Weight					1100	g
Outline	ZT73cT						

**Outline:**



TECHSEM reserves the right to change specifications without notice.