



Features

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

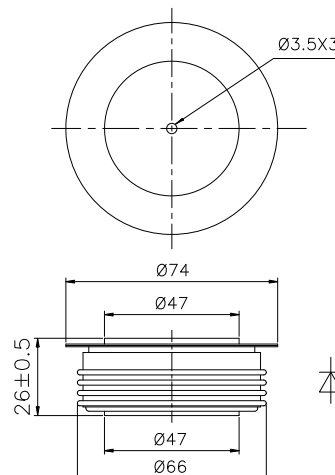
Typical Applications

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

Part No.H50ZYG-ZT50cT		
I_{F(AV)}	700A	
V_{RRM}	4000V	4200V
	4500V	

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 =70°C			700	A	
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	125	4000		4500	V	
I _{RRM}	Repetitive peak current	at V _{RRM}	125			100	mA	
I _{FSM}	Surge forward current	10ms half sine wave	125			16	kA	
I ² t	I ² t for fusing coordination	V _R =0					1280	10 ³ A ² s
V _{FO}	Threshold voltage		125			1.70	V	
r _F	Forward slope resistance						0.98	mΩ
V _{FM}	Peak forward voltage	I _{FM} =2000A, F=24kHz	25			3.80	V	
I _{rm}	Reverse recovery current		125		610		A	
t _{rr}	Reverse recovery time	I _{TM} =1000A, tp=4000μs, di/dt=-60A/μs, V _R =100V				7.0		μs
Q _{rr}	Recovery charge					1500		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN				0.020	°C /W	
R _{th(c-h)}	Thermal resistance case to heatsink					0.005		
F _m	Mounting force			19		26	kN	
T _{vj}	Junction temperature			-40		125	°C	
T _{stg}	Stored temperature			-40		140	°C	
W _t	Weight					440	g	
Outline	ZT50cT							

Outline:



TECHSEM reserves the right to change specifications without notice.