

**Features**

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

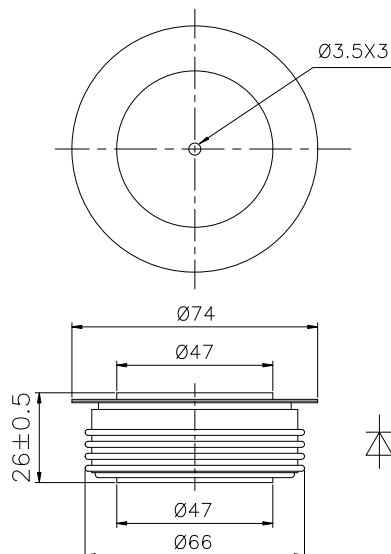
Typical Applications

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

Part No. Y50ZKD-ZT50cT

I_{F(AV)}	1208A	
V_{RRM}	2200V	2500V
	2800V	3000V

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			1208	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	150	2100		3000	V
I _{RRM}	Repetitive peak current	at V _{RRM}	150			100	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			16	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}				1280	A ² s*10 ³
V _{FO}	Threshold voltage		150			1.62	V
r _F	Forward slope resistance					0.36	mΩ
V _{FM}	Peak forward voltage	I _{TM} =1500A, F=24kN	25			2.80	V
I _{rm}	Reverse recovery current	I _{TM} =1000A, tp=4000μs, di/dt=-60A/μs, V _R =100V	150		166		A
t _{rr}	Reverse recovery time				7		μs
Q _{rr}	Recovery charge				500	650	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 heat sink					0.005	
F _m	Mounting force			19		26	kN
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		160	°C
W _t	Weight				440		g
Outline	ZT50cT						

Outline:

TECHSEM reserves the right to change specifications without notice.