



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. Y50ZKC-ZT50cT			
I_{F(AV)}	1400A		
V_{RRM}	1200V	1400V	1600V
	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			1400	A
V _{RRM}	Repetitive peak reverse voltage	t _p =10ms		150	1100		2000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		150			100	mA
I _{FSM}	Surge forward current	10ms half sine wave		150			19	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						1805
V _{FO}	Threshold voltage			150			1.42	V
r _F	Forward slope resistance							0.36
V _{FM}	Peak forward voltage	I _{TM} =3000A, F=24kN		25			2.80	V
I _{rm}	Reverse recovery current	I _{TM} =1000A, t _p =4000μs, di/dt=-60A/μs, V _R =100V		150		76		A
t _{rr}	Reverse recovery time					6		μs
Q _{rr}	Recovery charge					228	250	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:

