



Features

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

Typical Applications

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

Part No. Y70ZKC-ZT60cT

I_{F(AV)}	2620 A
V_{RRM}	1100V
	1400V
	1600V
	2000V
t_{rr}	7.0µs

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			2620	A	
I _{RRM}	Repetitive peak current	at V _{RRM} tp=10ms		150			195	mA	
I _{FSM}	Surge forward current	10ms half sine wave		150			31	kA	
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						4805	10 ³ A ² s
V _{FO}	Threshold voltage			150			1.10	V	
r _F	Forward slope resistance							0.15	mΩ
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=35kN		25			2.80	V	
I _m	Reverse recovery current			150		228		A	
t _{rr}	Reverse recovery time	I _{FM} =2000A, tp=4000µs, di/dt=-60A/µs, V _R =50V				7			µs
Q _{rr}	Recovery charge					800	1000		µC
R _{th(j-c)}	Thermal resistance Junction to case	Double side cooled					0.012	°C /W	
R _{th(c-h)}	Thermal resistance case to heatsink	Clamping force 35kN					0.003		
F _m	Mounting force				30		40	kN	
T _{vj}	Junction temperature				-40		160	°C	
T _{stg}	Stored temperature				-40		160	°C	
W _t	Weight					880		g	
Outline	ZT60cT								

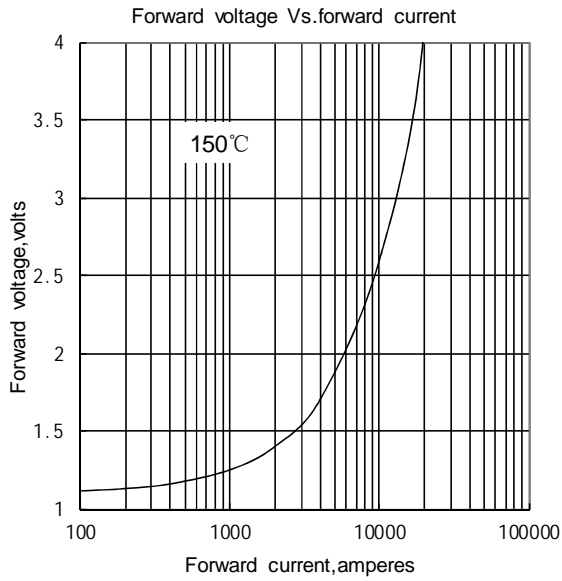


Fig.1

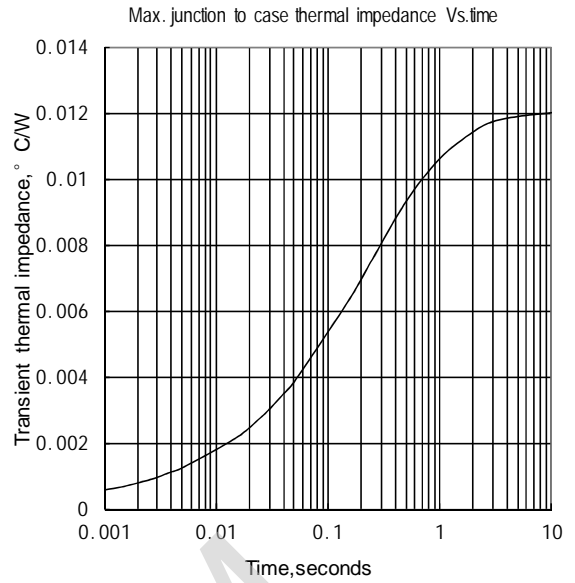


Fig.2

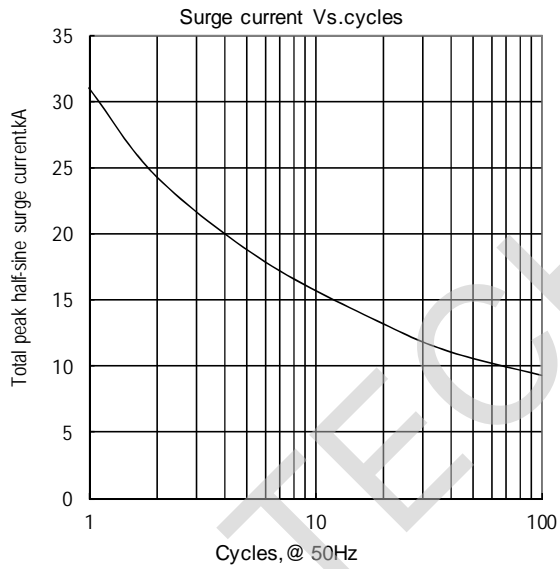


Fig.3

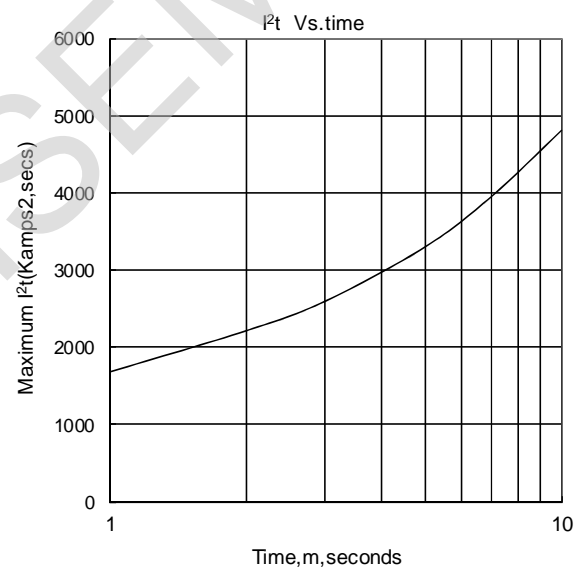


Fig.4

Outline:

