



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.H76ZYG-ZT73dT		
I_{F(AV)}	2200A	
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 _{sink} =55°C	125			2200	A
I _{RRM}	Repetitive peak current	at V _{RRM}	125			240	mA
I _{FSM}	Surge forward current	10ms half sine wave	125			23	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}				2645	A ² s*10 ³
V _{FO}	Threshold voltage		125			1.65	V
r _F	Forward slope resistance					0.26	mΩ
V _{FM}	Peak forward voltage	@I _{FM} =3000A,	25			2.80	V
		@I _{FM} =5000A	125			2.98	
V _{FRM}	Maximum forward recovery voltage	di/dt=1000A/μs	125			80	V
			25			40	V
I _{rm}	Reverse recovery current		125		400		A
t _{rr}	Reverse recovery time	I _{FM} =2000A, t _p =4000μs, -di/dt=60A/μs, V _R =50V			8.0		μs
Q _{rr}	Recovery charge				2000		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 1800 sine, double side cooled Clamping force40kN				0.010	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.003	
F _m	Mounting force			35		47	kN
T _{jop}	Operating temperature range			-40		125	°C
T _{stg}	Stored temperature			-40		150	°C
W _t	Weight				1460		g
Outline	ZT73dT						

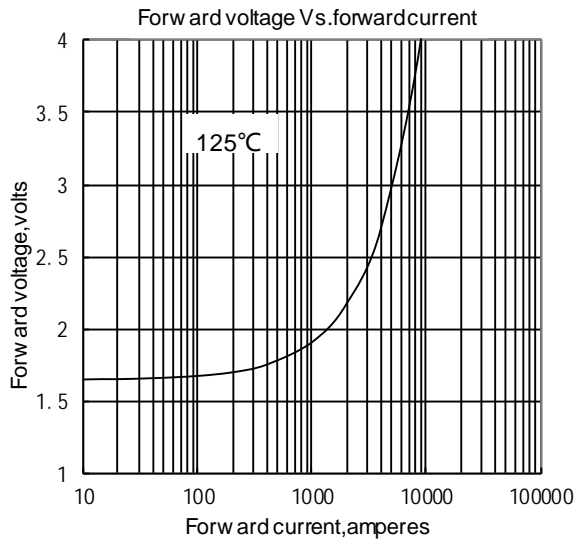


Fig.1

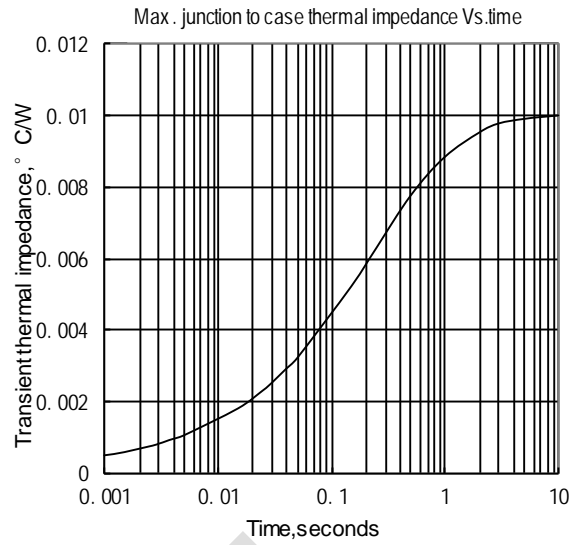


Fig.2

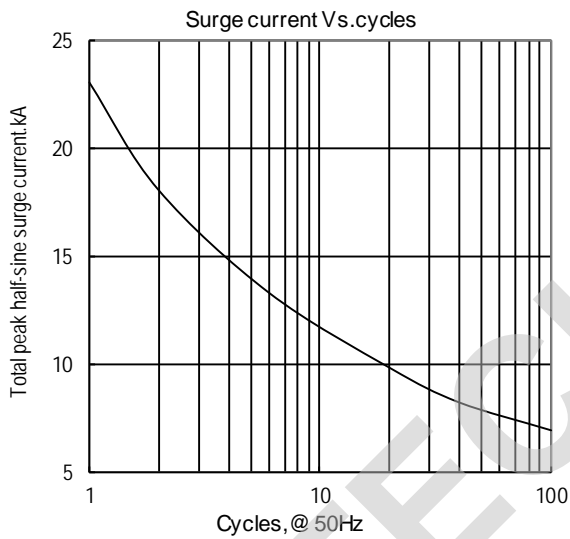


Fig.3

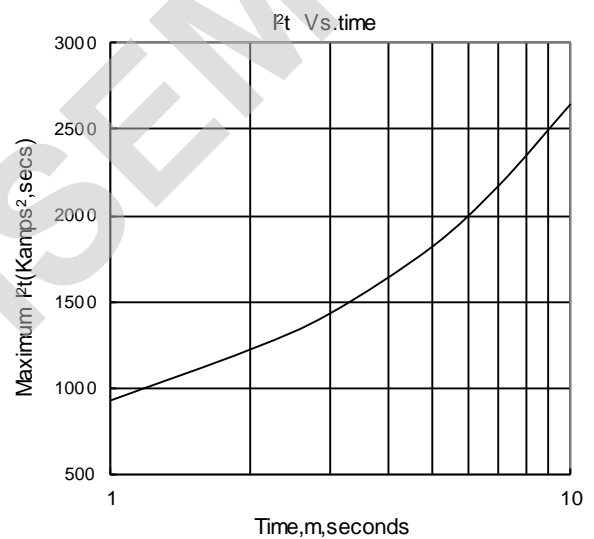


Fig.4

Outline:

