



Features

- n Low forward voltage drop
- n High reverse voltage
- n Hermetic metal cases with ceramic insulators

Typical Applications

- n All purpose high power rectifier diodes
- n High power resistance welding equipment
- n Non-controllable and half-controllable rectifiers
- n Controlled rectifiers

Part No. Y76ZPE-ZT73cT			
I_{F(AV)}	3500A		
V_{RRM}	3200V	3500V	
	4000V	4200V	

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	160			3500	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		160	3100		4200	V
I _{RRM}	Repetitive peak current	at V _{RRM}		160			200	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}		160			41	kA
I ² t	I ² t for fusing coordination						8405	A ² s*10 ³
V _{FO}	Threshold voltage			160			0.95	V
r _F	Forward slope resistance						0.138	mΩ
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=40kN		25			2.0	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=4000μs, di/dt=-20A/μs, V _R =100V		160		6000		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.010	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.003		
F _m	Mounting force				35		47	kN
T _{vj}	Junction temperature				-40		160	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					1100		g
Outline	ZT73cT							

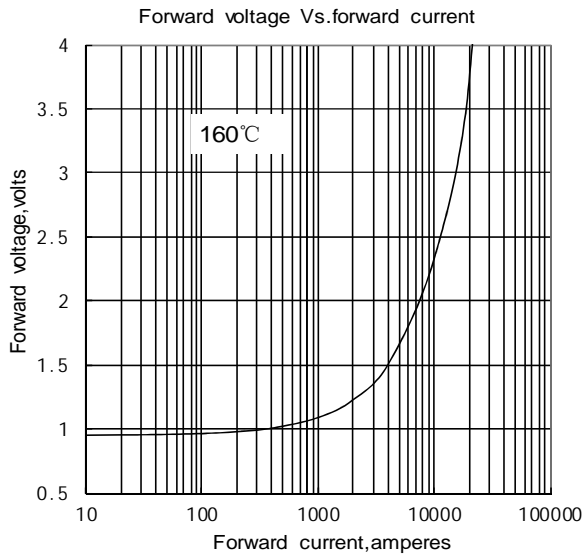


Fig.1

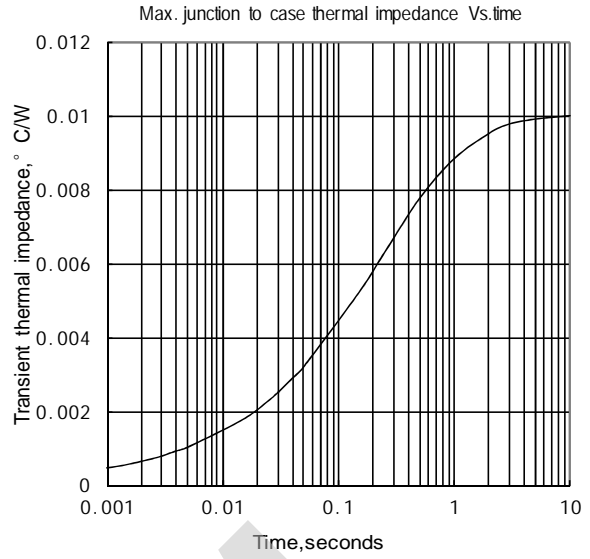


Fig.2

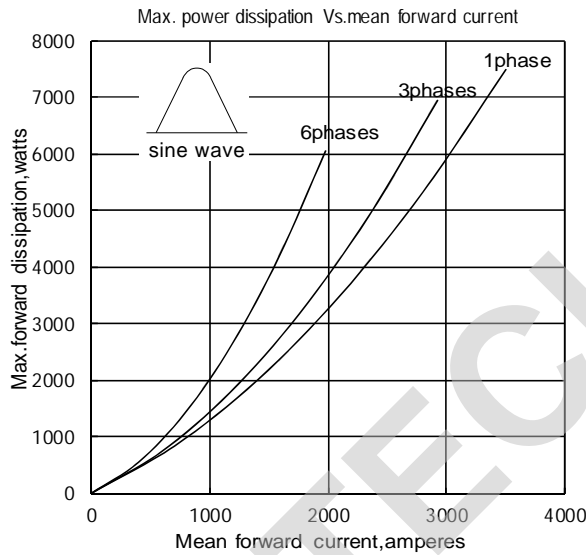


Fig.3

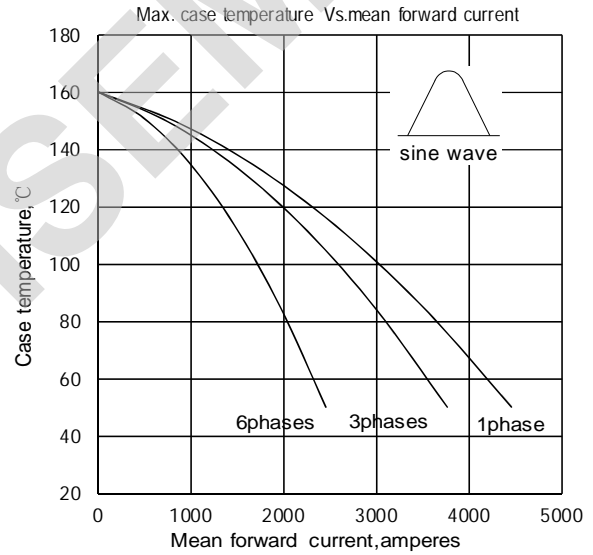


Fig.4

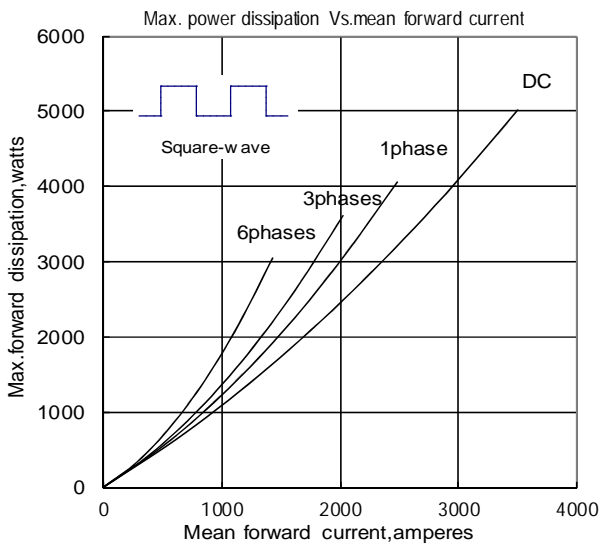


Fig.5

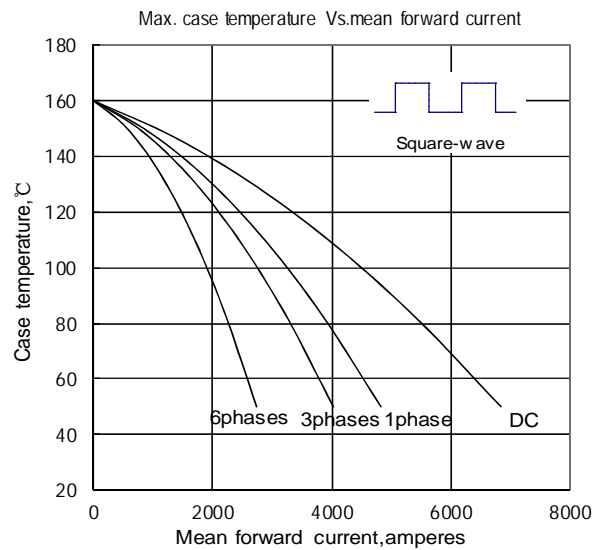


Fig.6

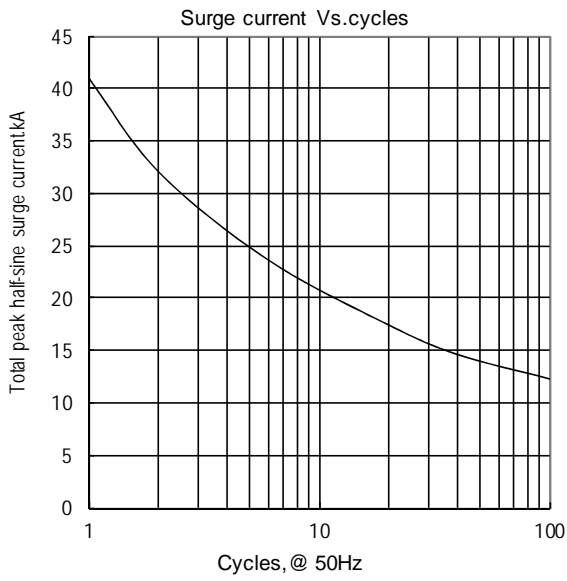


Fig.7

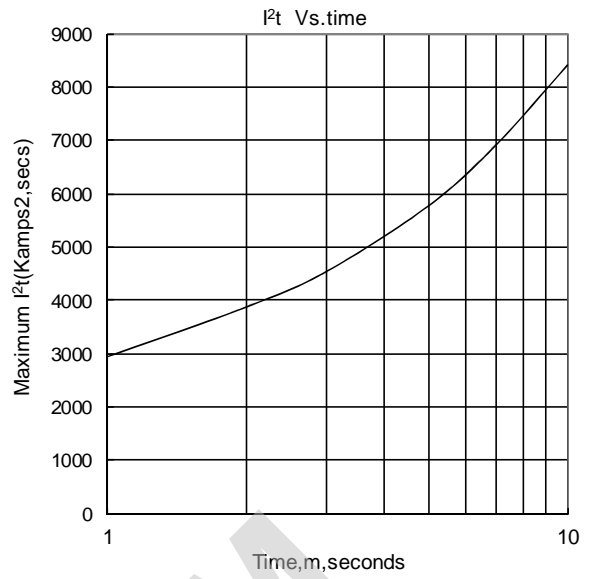
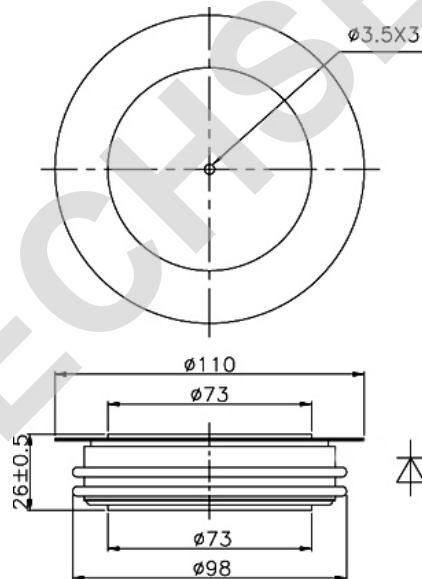


Fig.8

Outline:



TECHSEM reserves the right to change specifications without notice.