**Features**

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

Typical Applications

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

Part No. Y50ZPA-ZT50cT

I_{F(AV)}	5700A
V_{RRM}	200V 400V

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	190			5700	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	190	200		400	V
I _{RRM}	Repetitive peak current	at V _{RRM}	190			50	mA
I _{FSM}	Surge forward current	10ms half sine wave	190			50	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}				12500	A ² s*10 ³
V _{FO}	Threshold voltage		190			0.73	V
r _F	Forward slope resistance					0.025	mΩ
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=24kN	25			1.25	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=4000μs, di/dt=-20A/μs, V _R =100V	190		1000		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 5.0kN				0.017	C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.004	
F _m	Mounting force			19		26	kN
T _{vj}	Junction temperature			-40		190	C
T _{stg}	Stored temperature			-40		190	C
W _t	Weight				440		g
Outline	ZT50cT						

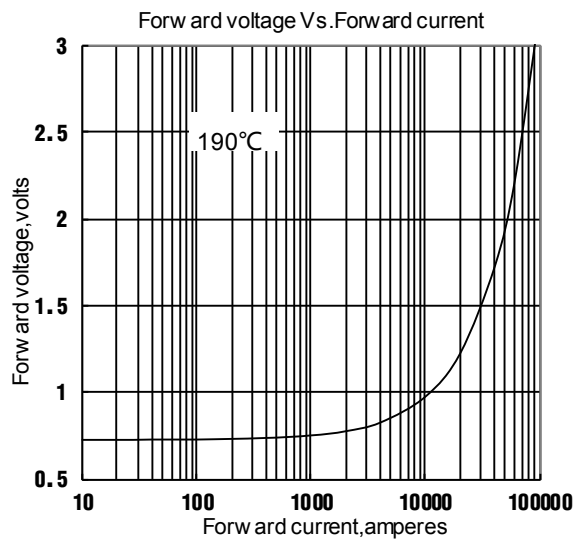


Fig1

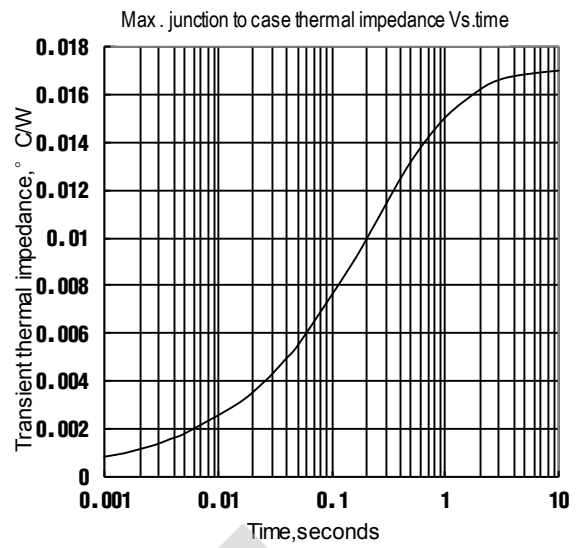


Fig2

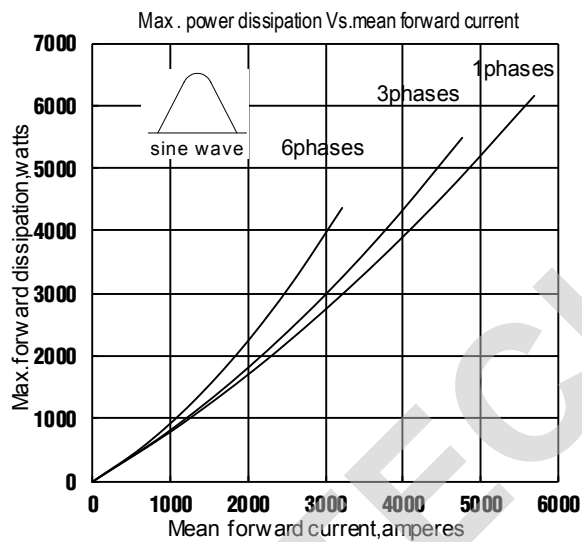


Fig3

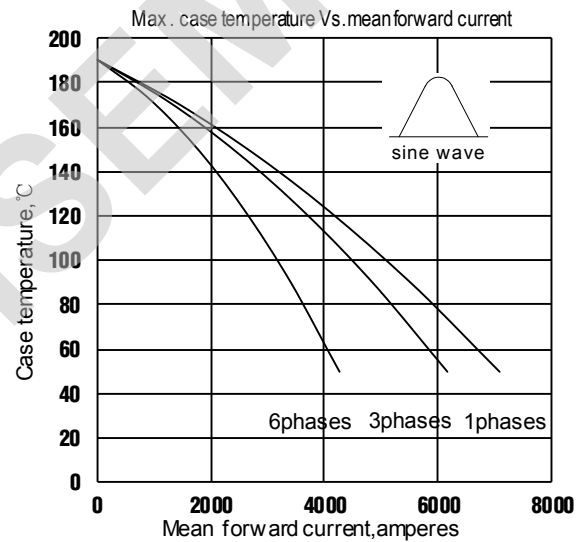


Fig4

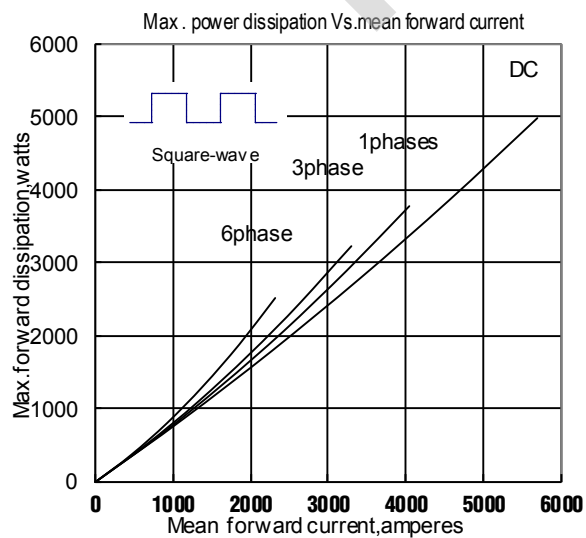


Fig5

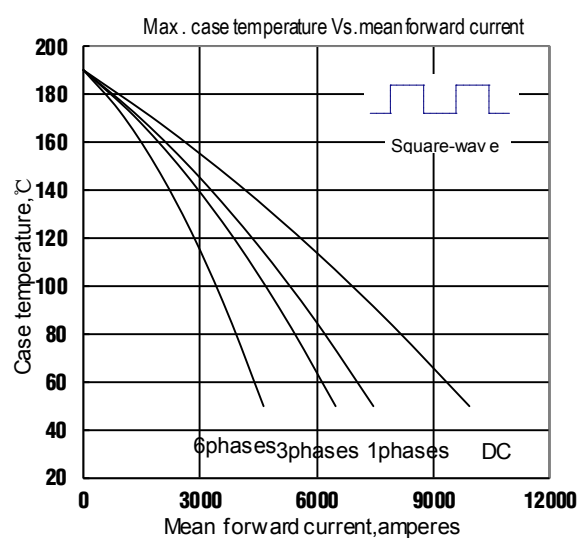


Fig6

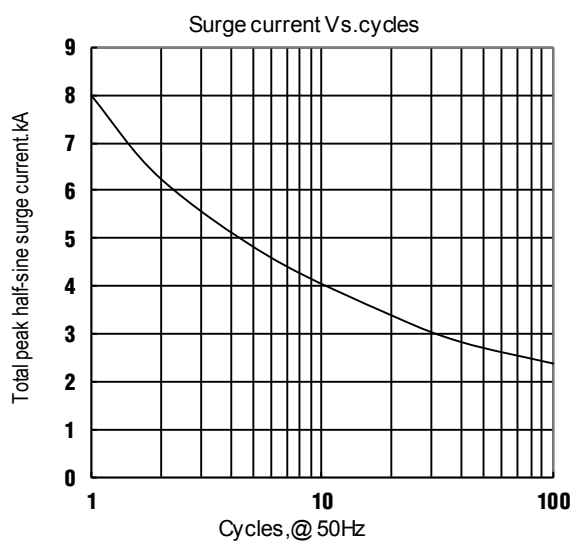


Fig7

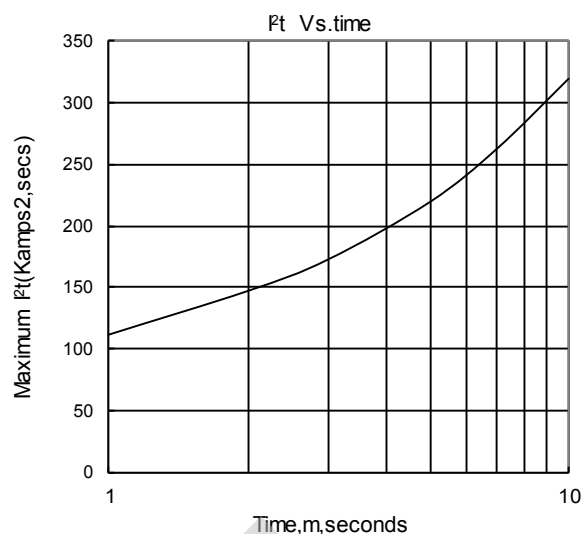
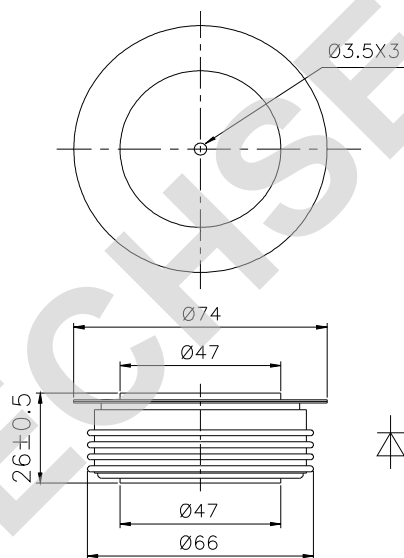


Fig8

Outline:



TECHSEM reserves the right to change specifications without notice.