

**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. Y50ZPB-ZT50cT

I_{F(AV)}	2910A
V_{RRM}	200V 400V
	600V 800V
	1000V 1200V
	1400V

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		2910	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		190	200	1400	V
I _{RRM}	Repetitive peak current	at V _{RRM}		190		80	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	190			31	kA
I ² t	I ² t for fusing coordination					4805	A ² s*10 ³
V _{FO}	Threshold voltage		190			0.80	V
r _F	Forward slope resistance					0.14	mΩ
V _{FM}	Peak forward voltage	I _{FM} =3000A, F=24kN	25			2.00	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=4000μs, di/dt=-20A/μs, V _R =100V	190		3300		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24.0 kN				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		190	°C
T _{stg}	Stored temperature			-40		190	°C
W _t	Weight				440		g
Outline	ZT50cT						

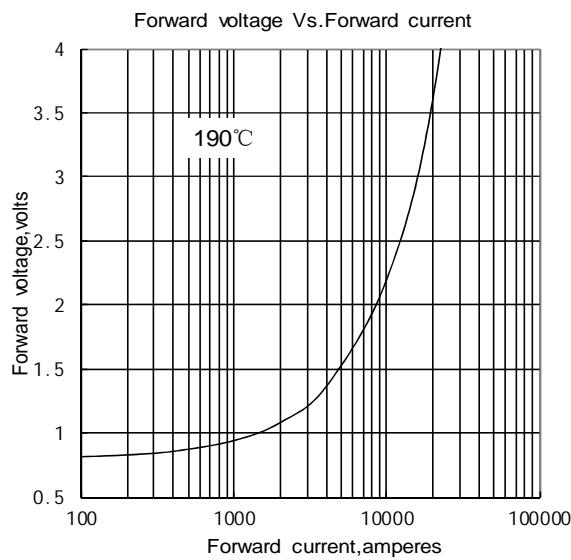


Fig.1

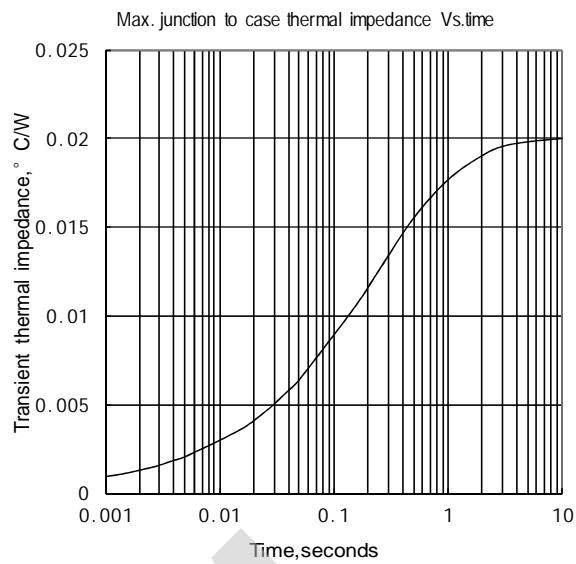


Fig.2

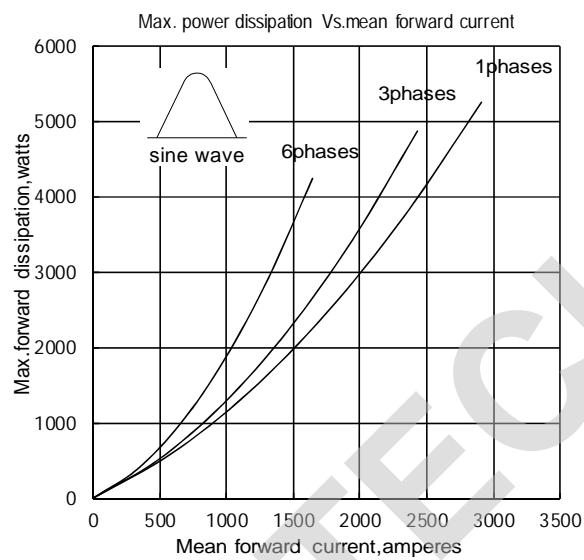


Fig.3

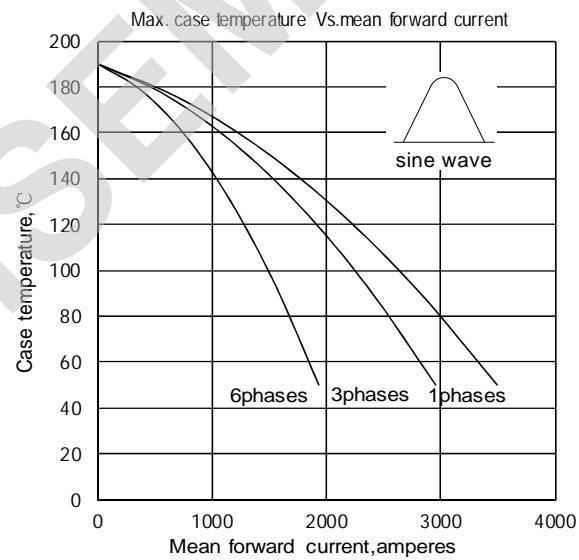


Fig.4

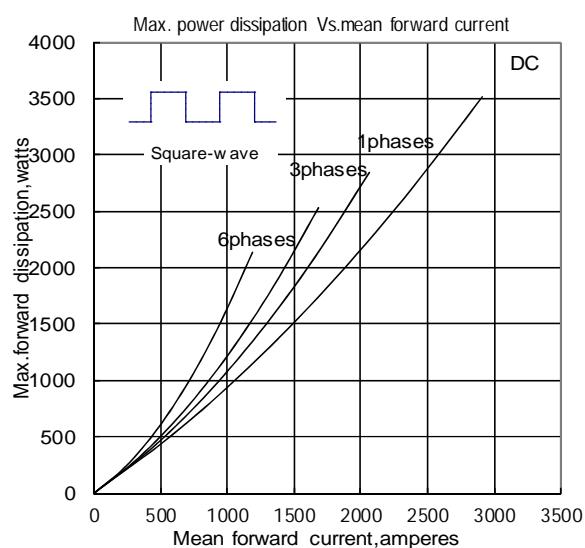


Fig.5

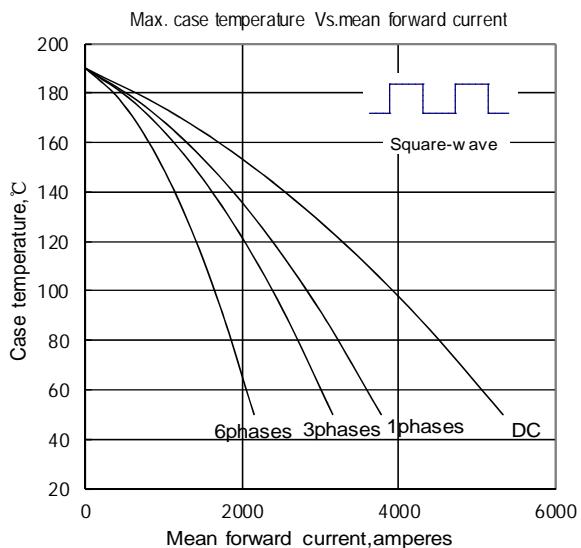


Fig.6

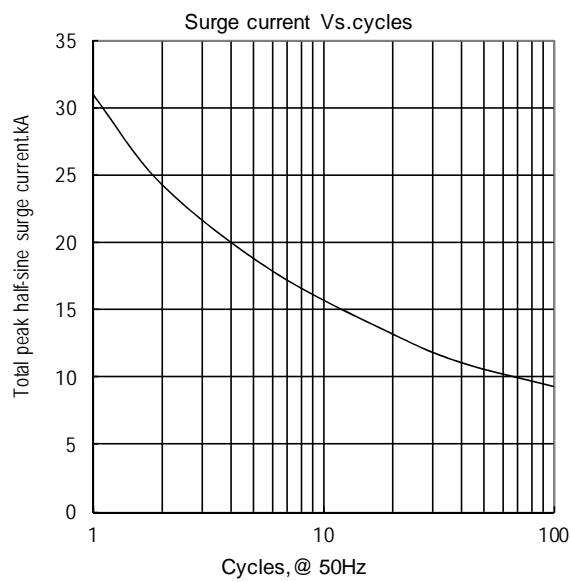


Fig.7

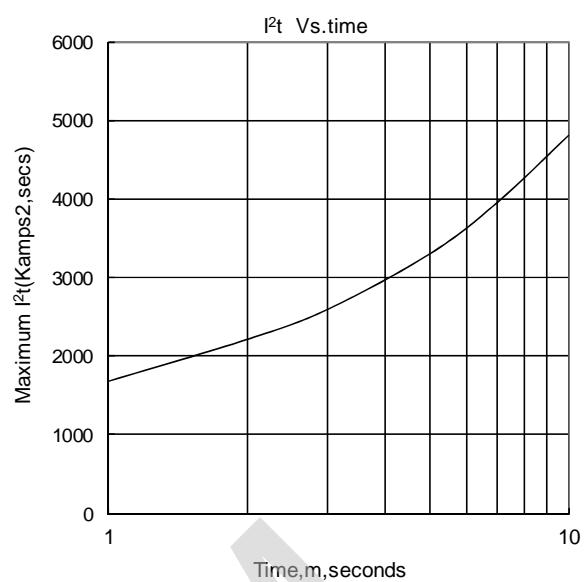
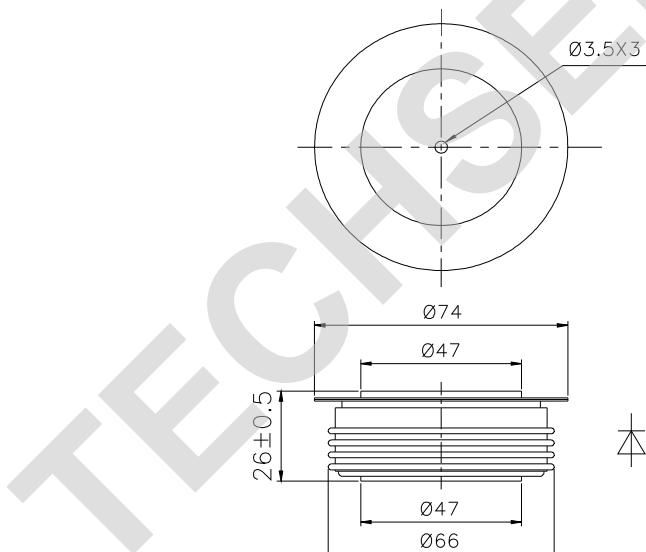


Fig.8

Outline:

TECHSEM reserves the right to change specifications without notice.