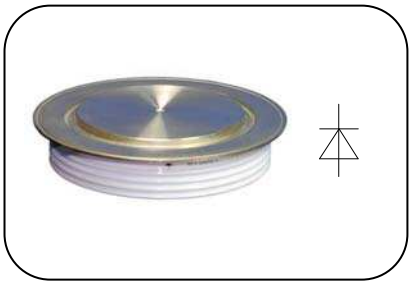
TECHSEM

Y76ZPB
RECTIFIER DIODE

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

$I_{F(AV)}$	**7600 A**
V_{RRM}	**200~1000 V**
I_{FSM}	**72 kA**
I^2t	**25920 10^3A^2S**



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=55°C	190			8960	A
			T_C=85°C				7600	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RSM}= V_{RRM}+100V		190	200		1000	V
I_{RRM}	Repetitive peak current	V_{RM}= V_{RRM}		190			100	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		190			72	kA
I^2t	I^2T for fusing coordination						25920	A^2s*10^3
V_{FO}	Threshold voltage			190			0.67	V
r_F	Forward slop resistance						0.038	mΩ
V_{FM}	Peak on-state voltage	I_{FM}=5000A, F=40kN		190			0.94	V
Q_{rr}	Recovery charge	I_{FM}=2000A,tp=2000μs, di/dt=-20A/μs,V_R=50V				5000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 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_{stg}	Stored temperature				-40		190	°C
W_t	Weight					1100		g
Outline	ZT73cT							

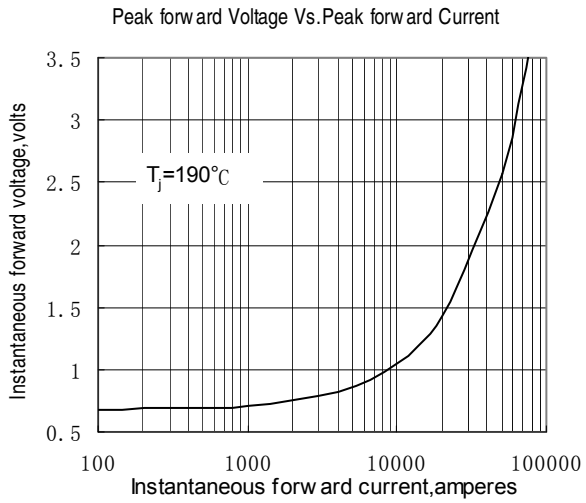


Fig.1

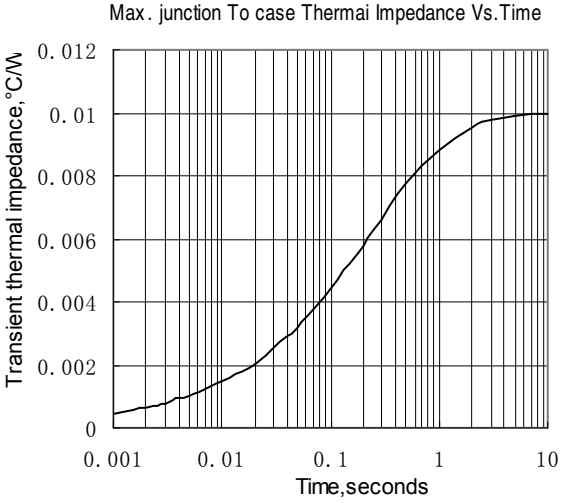


Fig.2

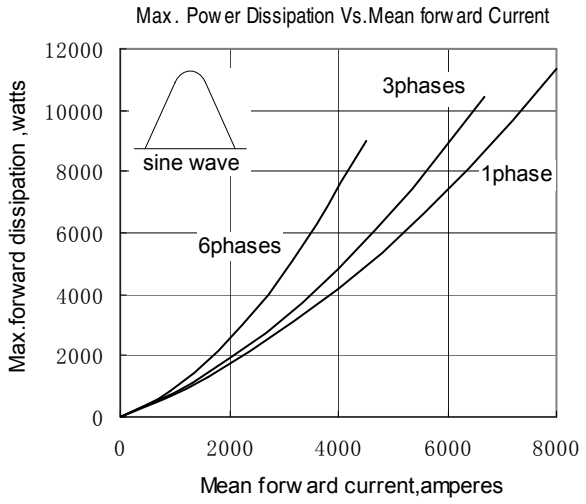


Fig.3

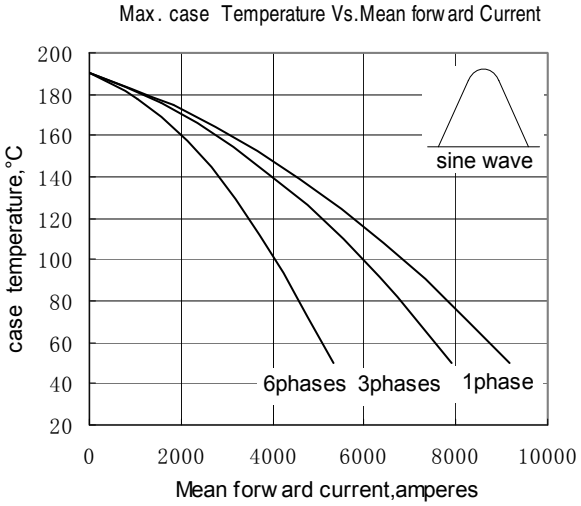


Fig.4

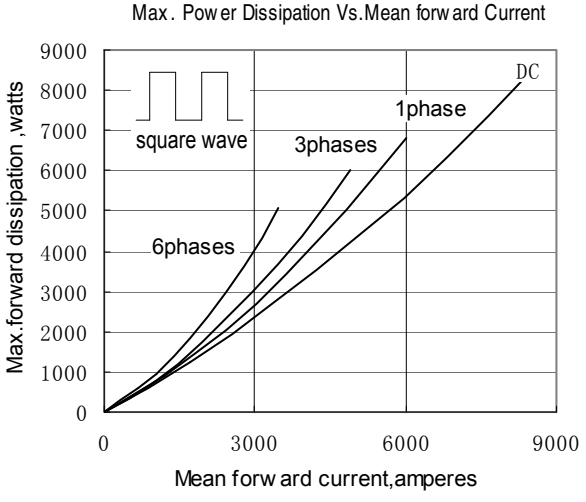


Fig.5

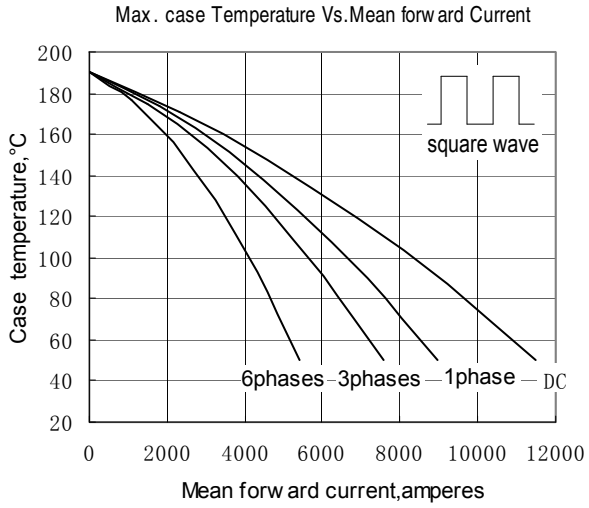


Fig.6

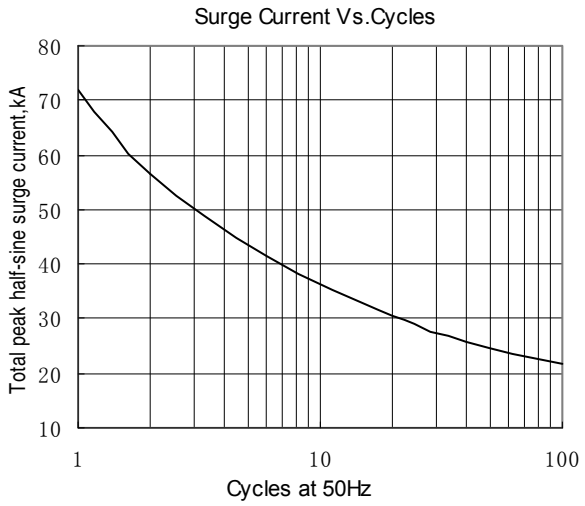


Fig.7

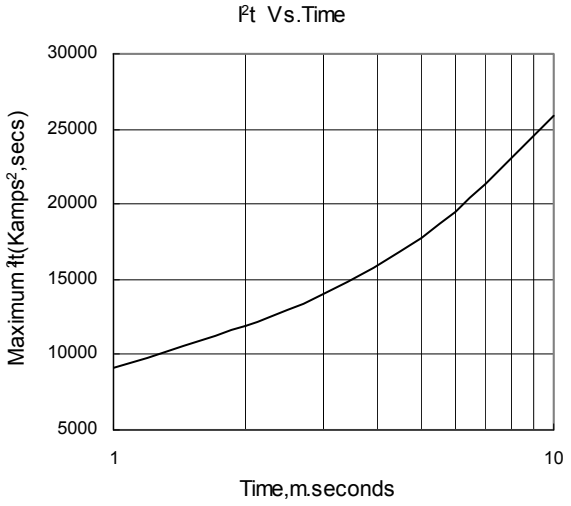


Fig.8

Outline: