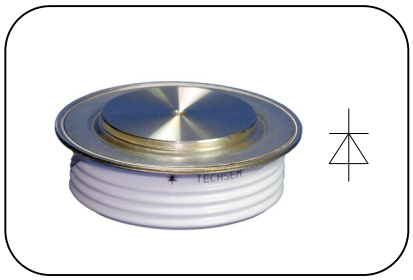


Features

- **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. Y70ZPD-ZT60cT

$I_{F(AV)}$	3470A	
V_{RRM}	2200V	2500V
	2800V	3000V

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			3470	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		160	2100		3000	V
I_{RRM}	Repetitive peak current	At V_{RRM}		160			160	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		160			35	kA
I^2t	I^2t for fusing coordination						6125	A^2s*10^3
V_{FO}	Threshold voltage			160			0.95	V
r_F	Forward slope resistance						0.10	mΩ
V_{FM}	Peak forward voltage	I_{FM}=5000A, F=40kN		25			2.00	V
Q_{rr}	Recovery charge	I_{FM}=2000A, tp=4000μs, di/dt=-20A/μs, V_R=100V		160		5500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.012	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.003	
F_m	Mounting force				30		40	kN
T_{vj}	Junction temperature				-40		160	°C
T_{stg}	Stored temperature				-40		160	°C
W_t	Weight					880		g
Outline	ZT60cT							

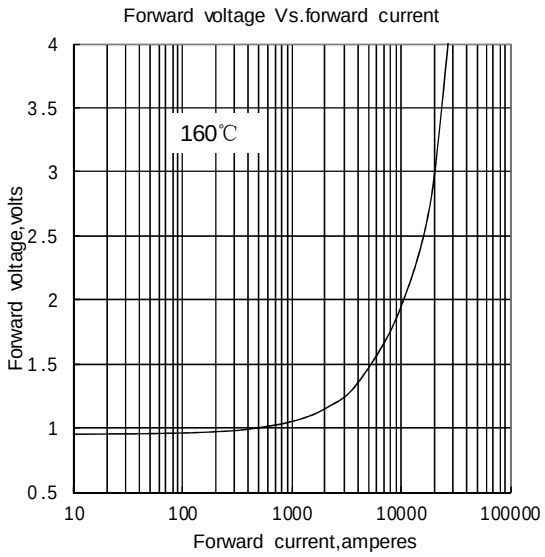


Fig.1

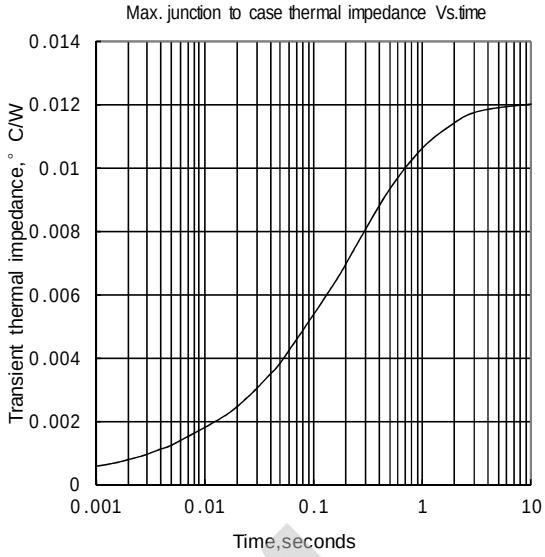


Fig.2

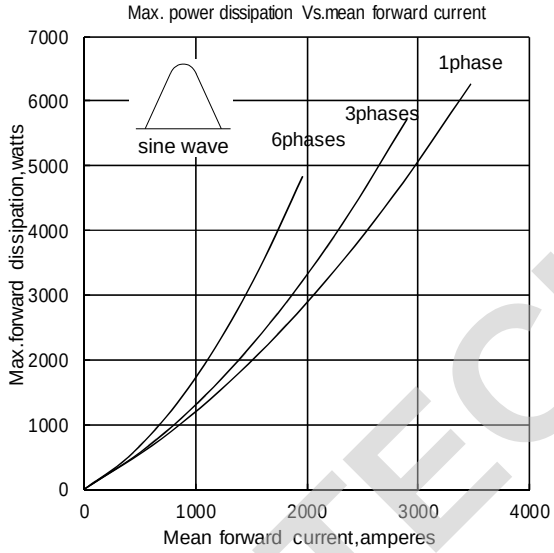


Fig.3

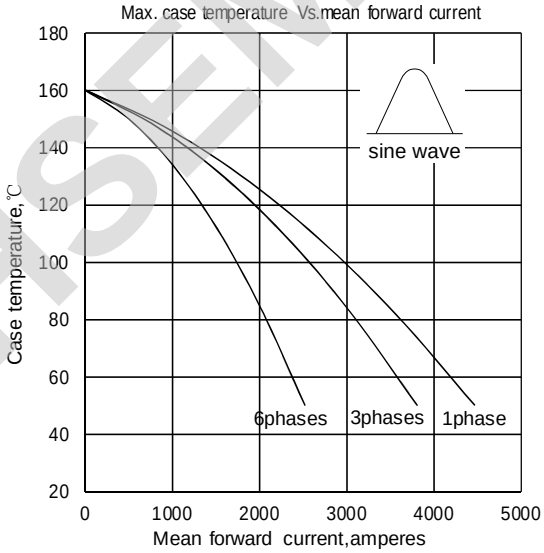


Fig.4

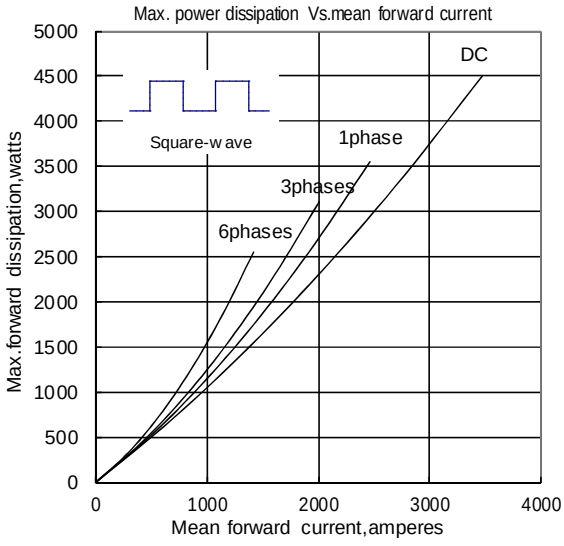


Fig.5

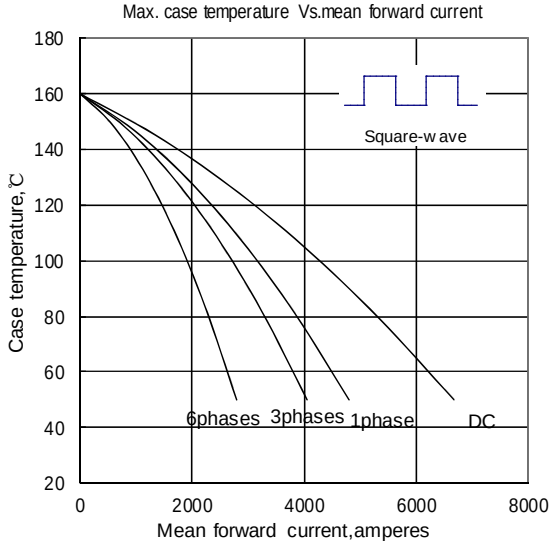


Fig.6

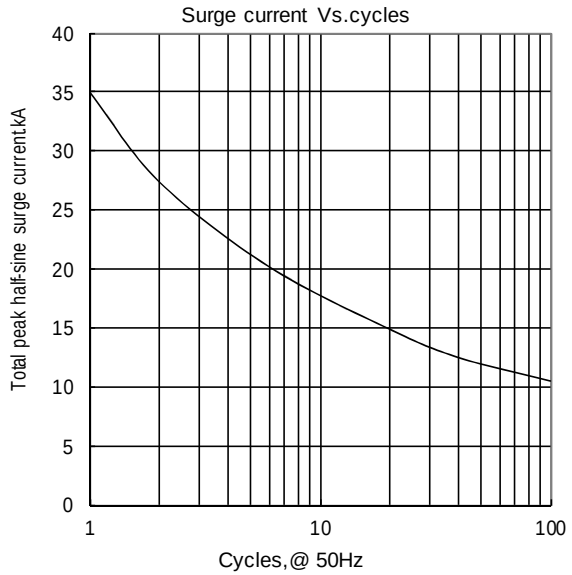


Fig.7

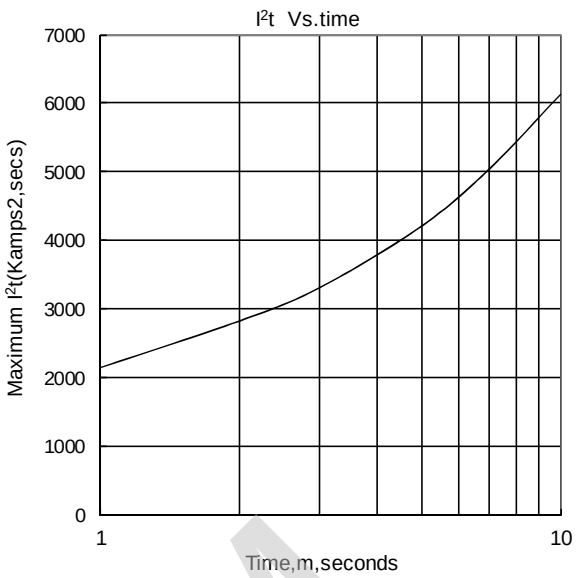
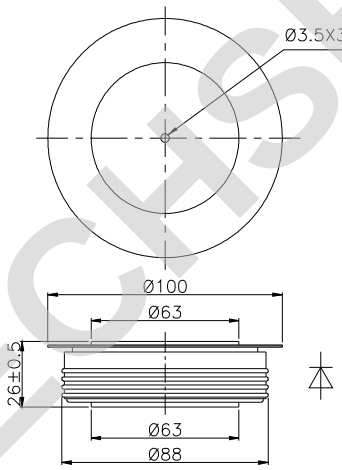


Fig.8

Outline:



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