**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

Part No. Y40ZPD-ZT39cT

I_{F(AV)}	1100A	
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			1100	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		160	2100		3000	V
I _{RRM}	Repetitive peak current	At V _{RRM}		160			50	mA
I _{FSM}	Surge forward current	10ms half sine wave		160			15	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						1125
V _{FO}	Threshold voltage			160			0.87	V
r _F	Forward slope resistance							0.48
V _{FM}	Peak forward voltage	I _{FM} =1500A, F=18kN		25			1.80	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=4000μs, di/dt=-20A/μs, V _R =100V		160		2200		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 15.0kN					0.028	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink						0.0075	
F _m	Mounting force				15		20	kN
T _{vj}	Junction temperature				-40		160	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					320		g
Outline	ZT39cT							

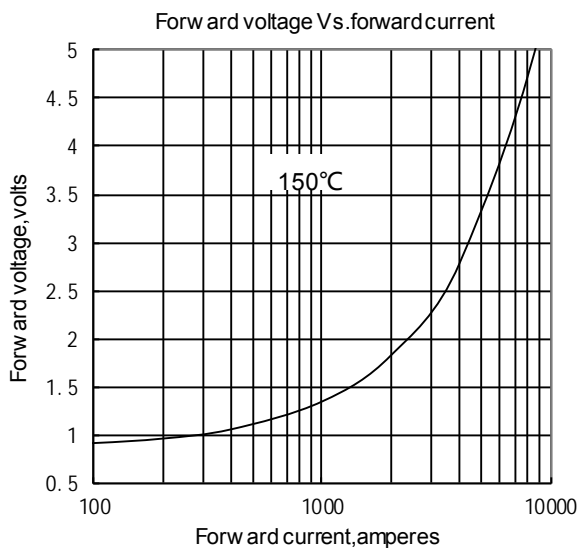


Fig.1

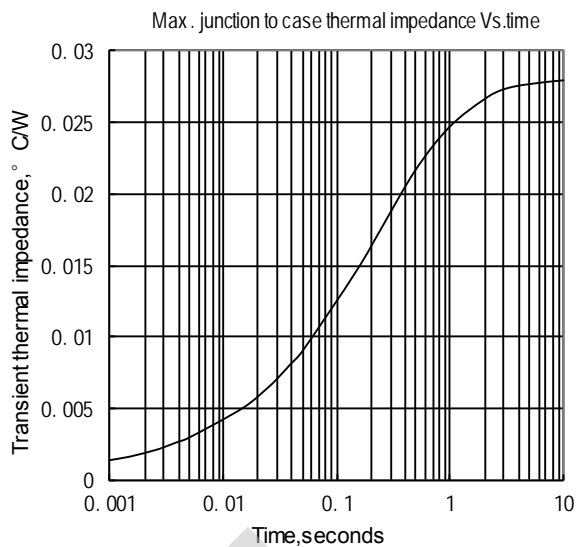


Fig.2

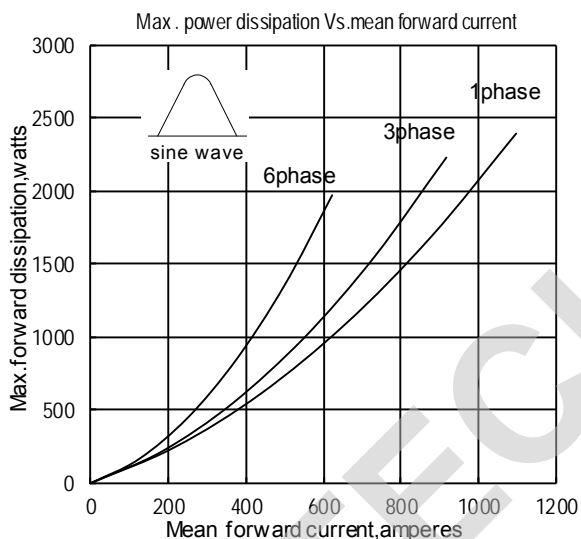


Fig.3

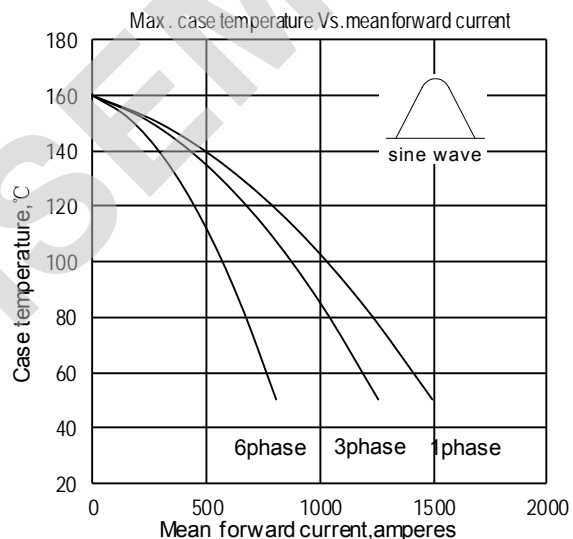


Fig.4

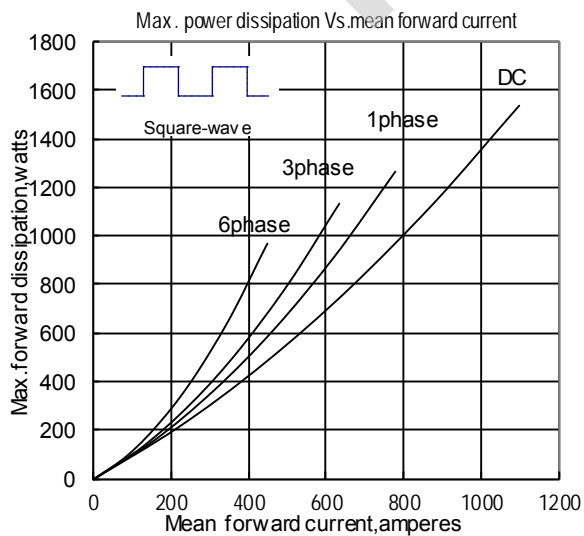


Fig.5

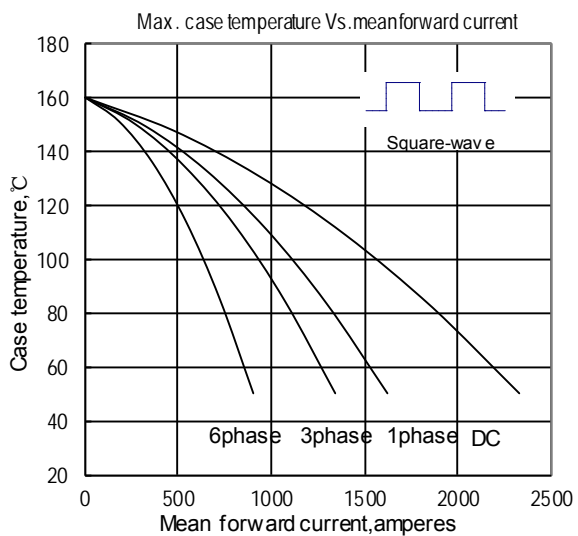


Fig.6

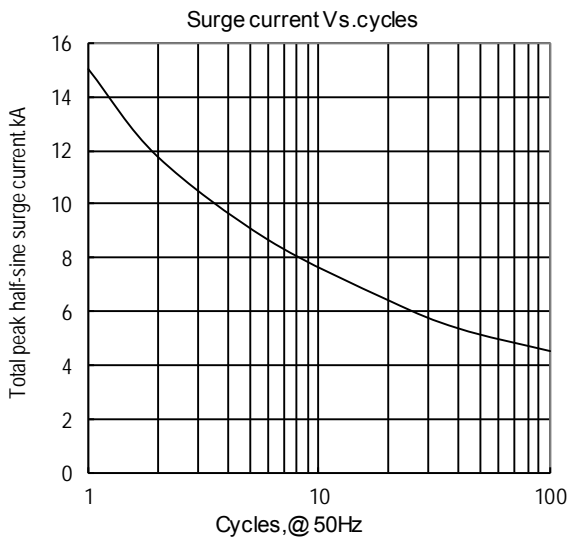


Fig.7

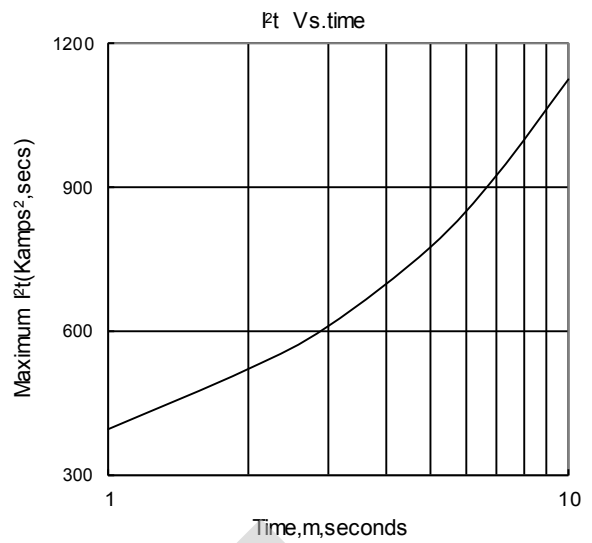
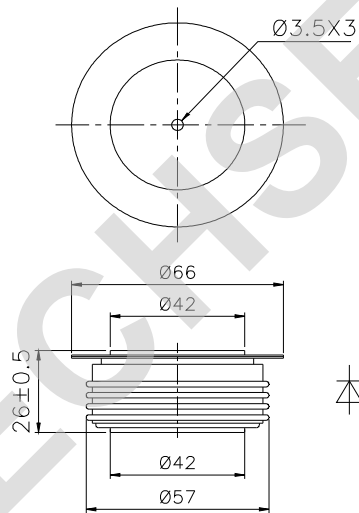


Fig.8

Outline:



TECHSEM reserves the right to change specifications without notice.