

**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. H38ZPU-ZT33dT

I_{F(AV)}	400 A
V_{RRM}	8100V 8300V
	8500 V

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	150		400	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	150	8000		8500	V
I _{RRM}	Repetitive peak current	at V _{RRM} tp=10ms	150			50	mA
I _{FSM}	Surge forward current	10ms half sine wave.	150			6.0	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}				180	10 ³ A ² s
V _{FO}	Threshold voltage		150			1.40	V
r _F	Forward slope resistance					2.20	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1000A, F=24kHz	25			2.55	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=4000μs, di/dt=-20A/μs, V _R =100V	150		2500		μC
R _{th(j-c)}	Thermal resistance Junction to case	double side cooled				0.045	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	Clamping force 15kN				0.008	
F _m	Mounting force			10		20	kN
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		160	°C
W _t	Weight				300		g
Outline	ZT33dT						

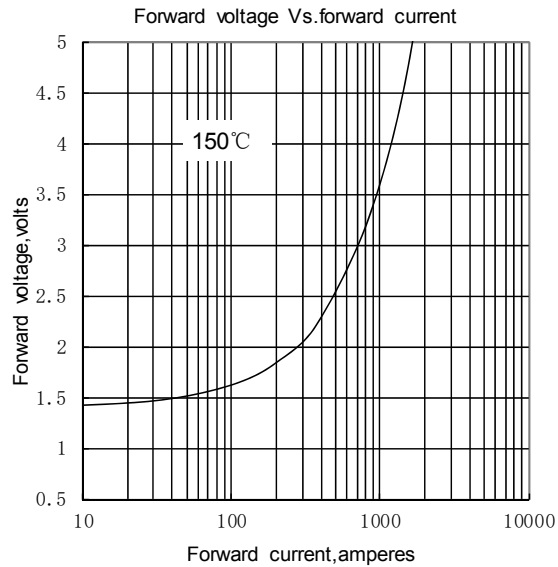


Fig.1

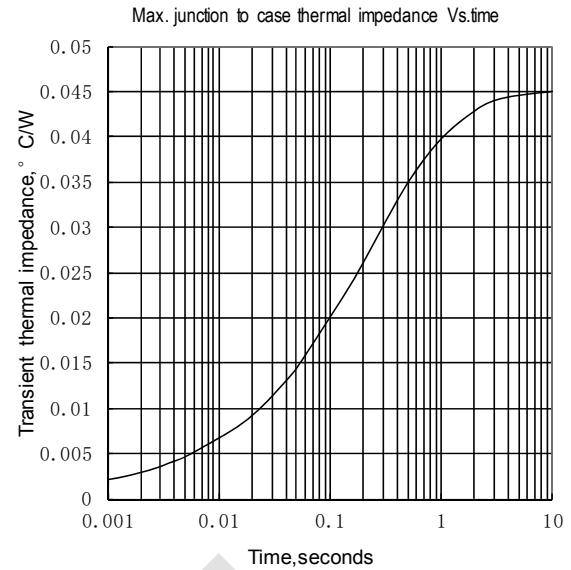


Fig.2

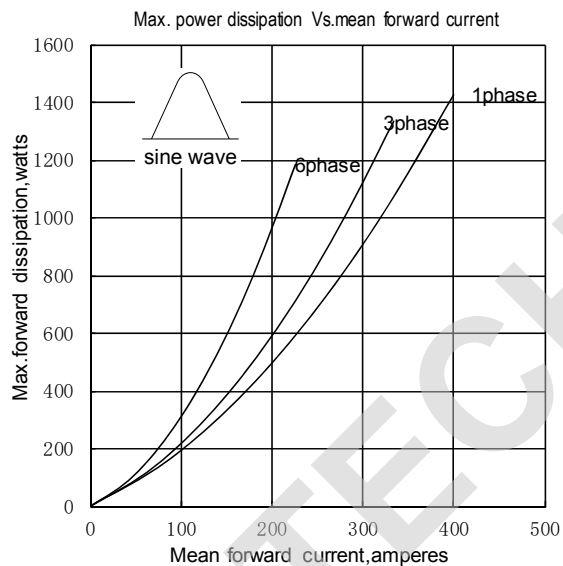


Fig.3

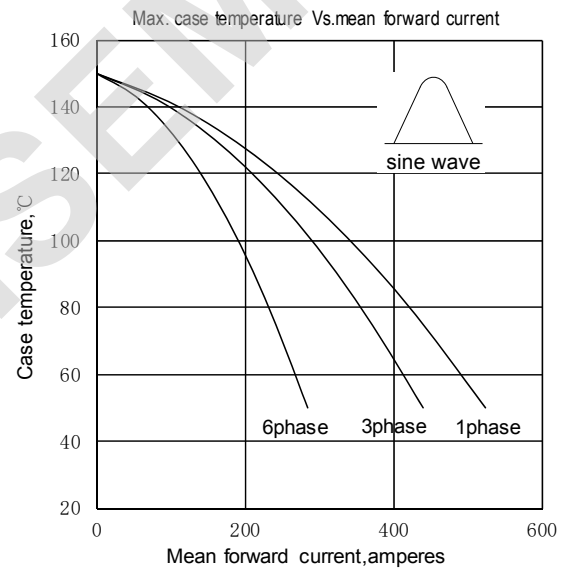


Fig.4

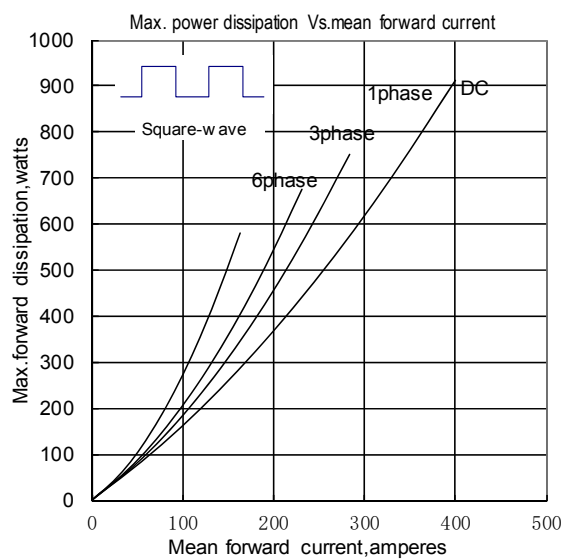


Fig.5

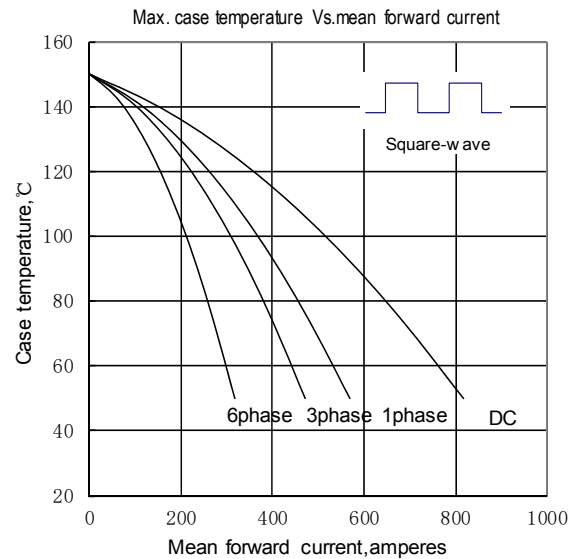


Fig.6

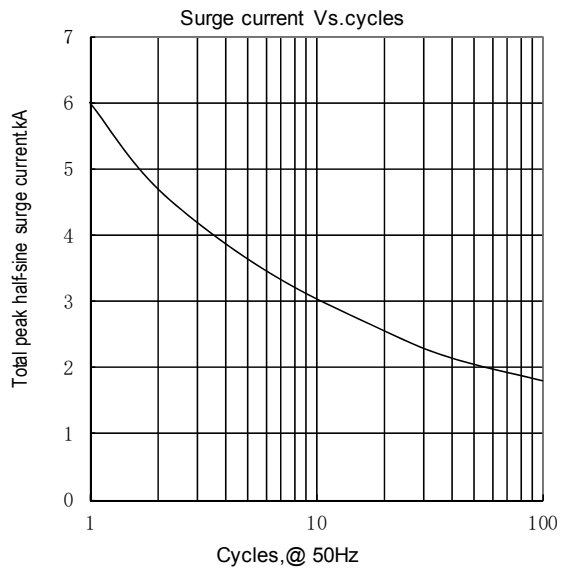


Fig.7

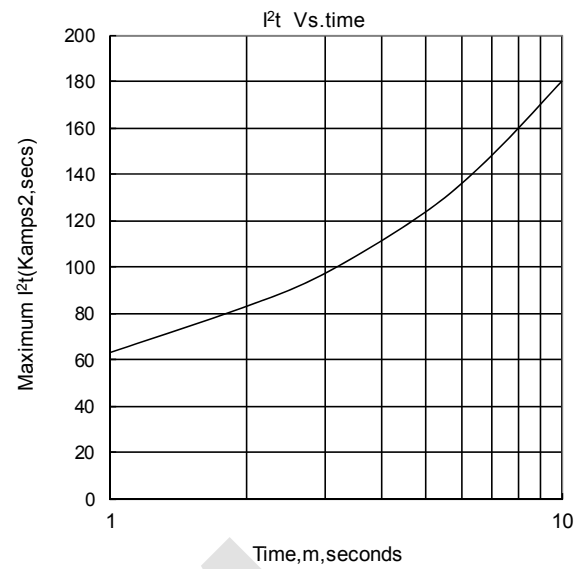
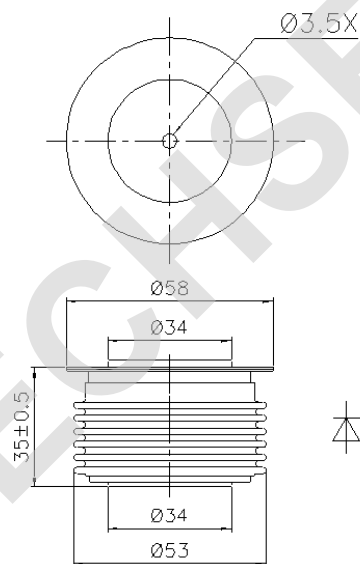


Fig.8

Outline:

TECHSEM reserves the right to change specifications without notice.