

**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. H100ZPU-ZT100dT

I_{F(AV)}	3300 A	
V_{RRM}	8000V	8500V

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 =100°C	150			3300	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		150	8000		8500	V
I _{RRM}	Repetitive peak current	at V _{RRM} tp=10ms		150			300	mA
I _{FSM}	Surge forward current	10ms half sine wave.		150			50	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					12500	10 ³ A ² s
V _{FO}	Threshold voltage			150			0.96	V
r _F	Forward slope resistance						0.24	mΩ
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=100kN		25			2.10	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=4000μs, di/dt=-20A/μs, V _R =100V		150		23500		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine. double side cooled Clamping force 100kN					0.005	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink						0.0015	
F _m	Mounting force				98		113	kN
T _{vj}	Junction temperature				-40		150	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					2500		g
Outline	ZT100dT							

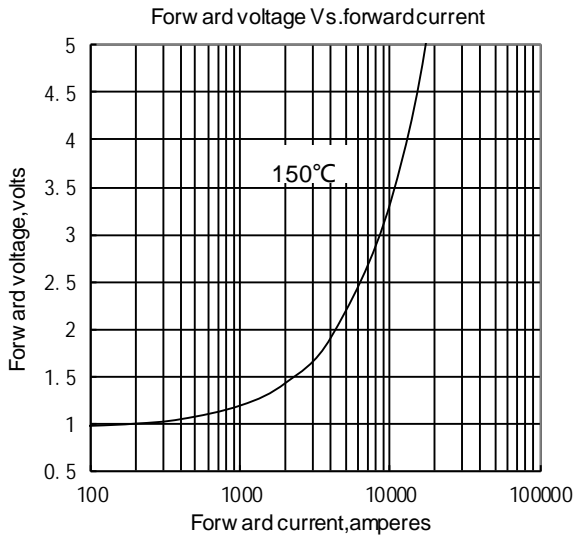


Fig.1

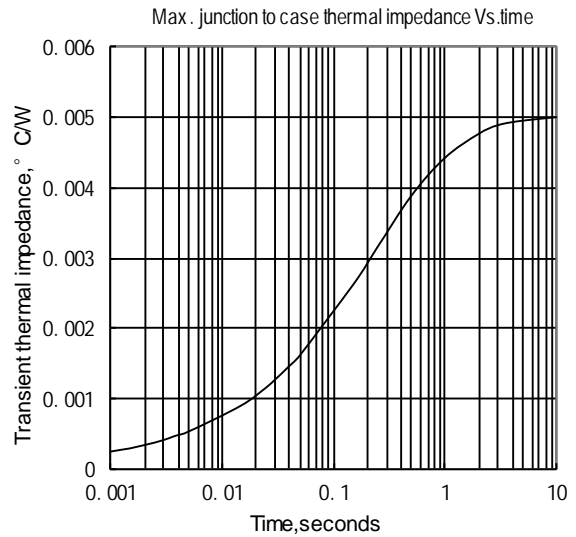


Fig.2

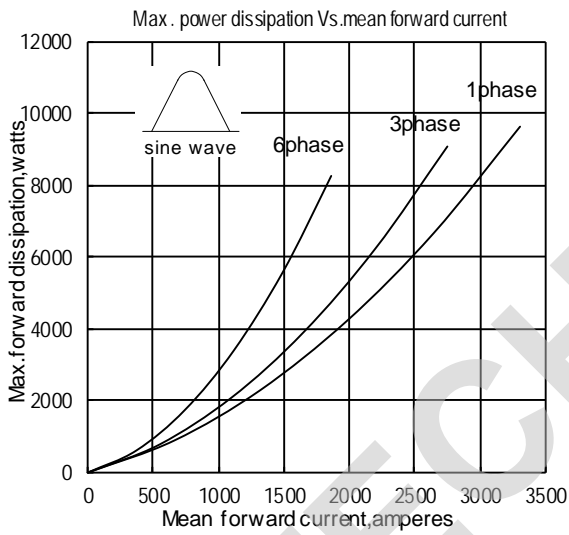


Fig.3

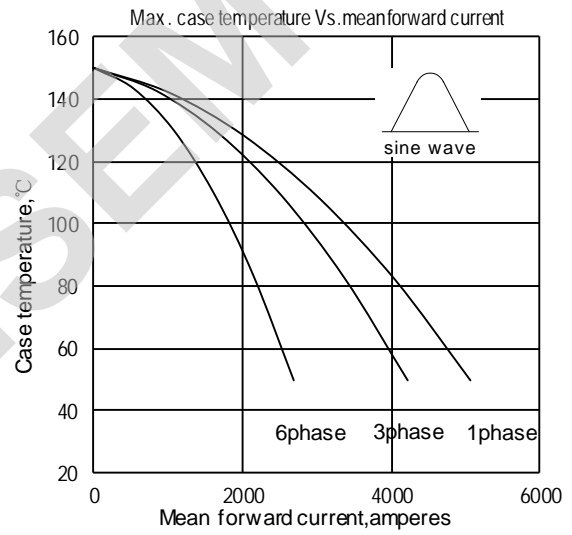


Fig.4

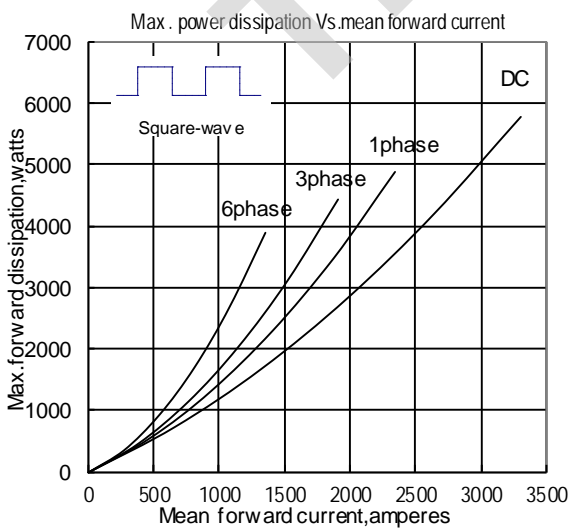


Fig.5

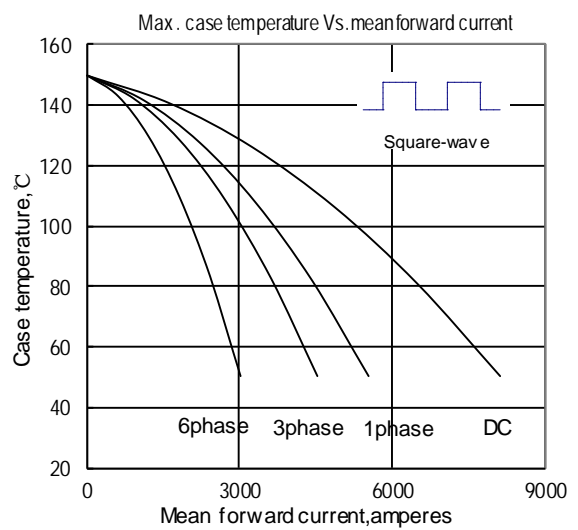


Fig.6

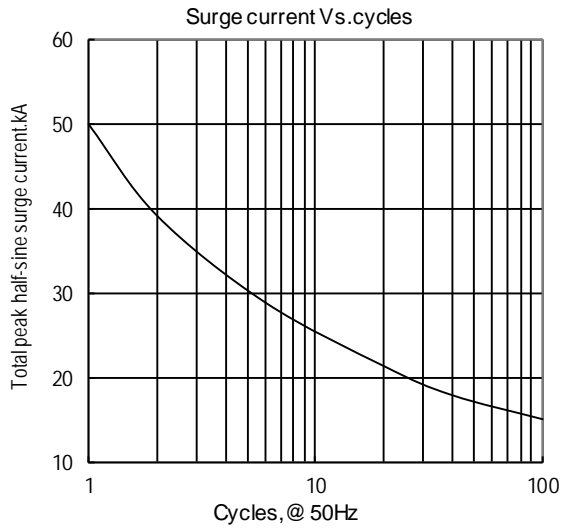


Fig.7

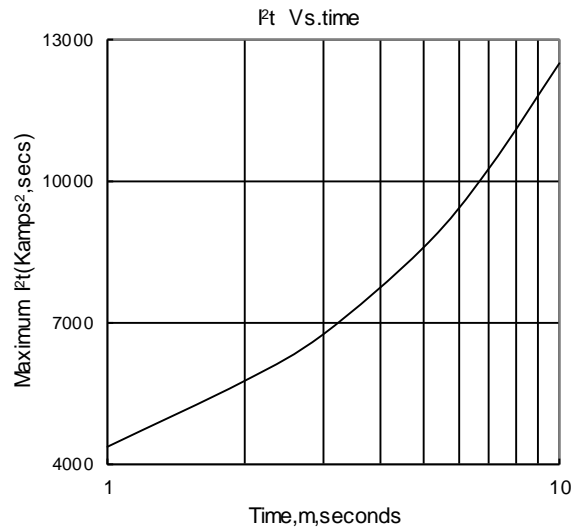
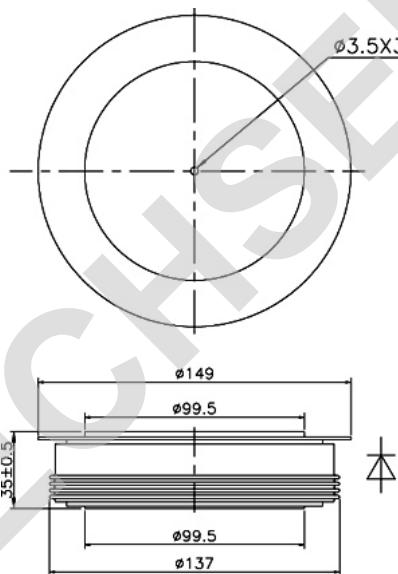


Fig.8

Outline:



TECHSEM reserves the right to change specifications without notice.