

**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. H100ZPU-ZT100dT**

<b>I<sub>F(AV)</sub></b>	<b>3300 A</b>
<b>V<sub>RRM</sub></b>	<b>8000V 8500V</b>

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

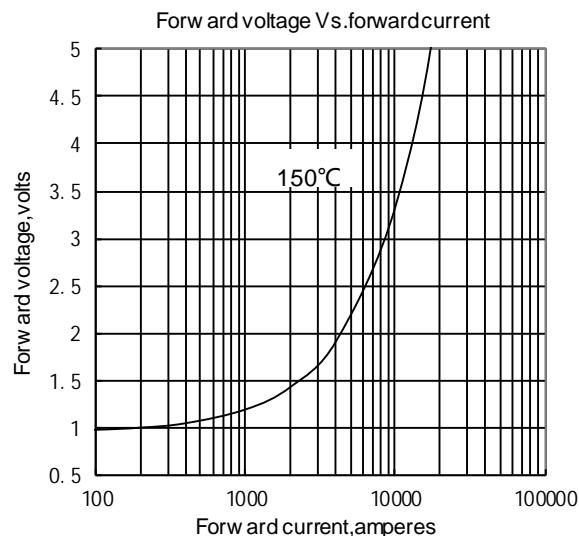


Fig.1

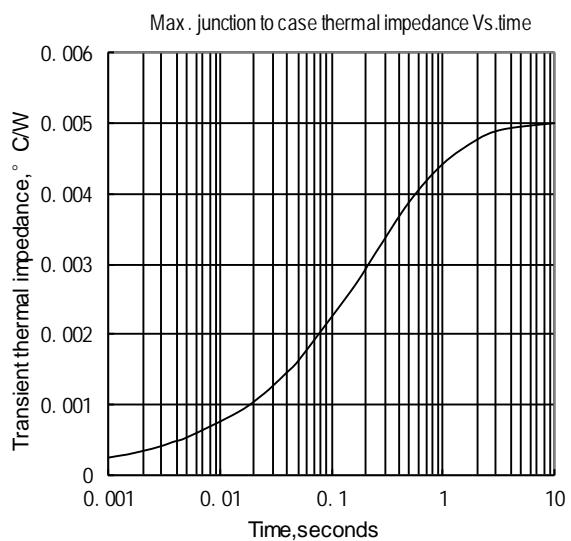


Fig.2

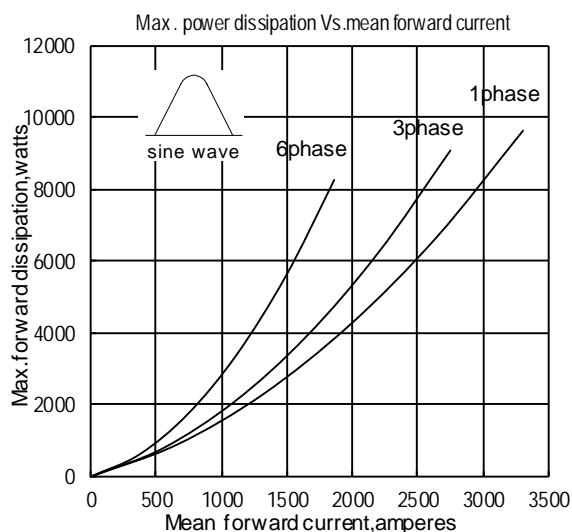


Fig.3

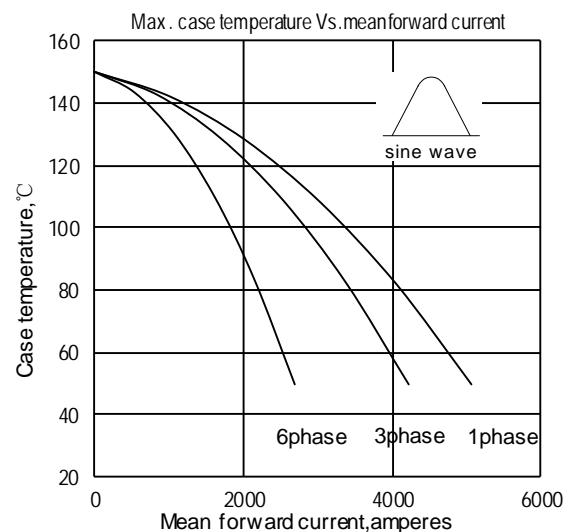


Fig.4

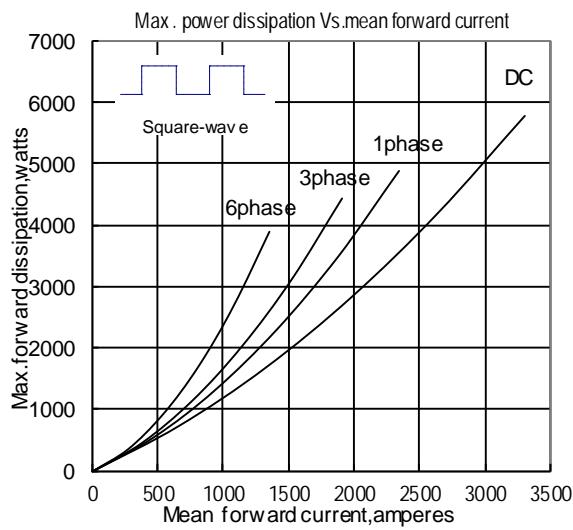


Fig.5

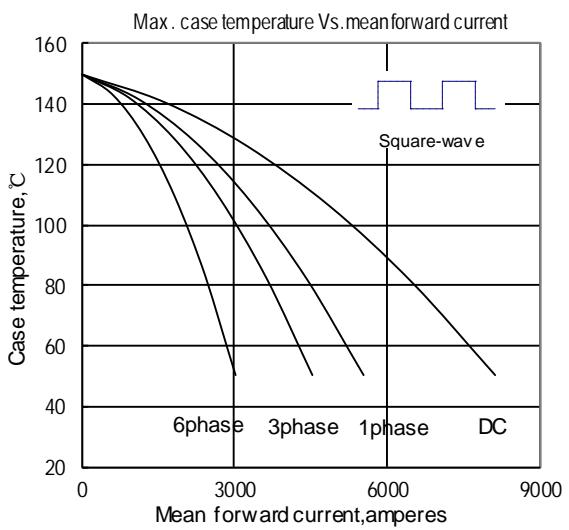


Fig.6

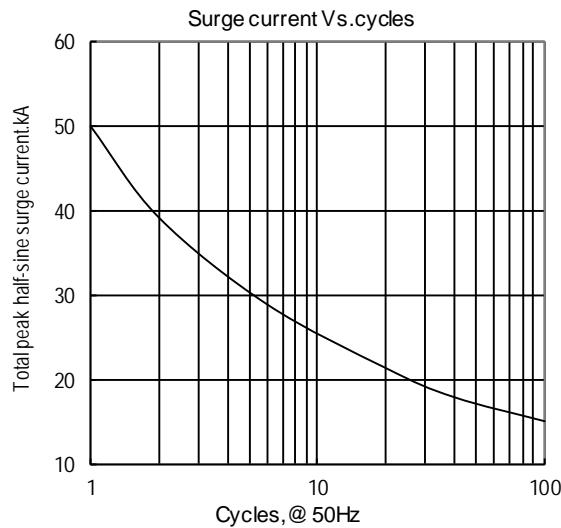


Fig.7

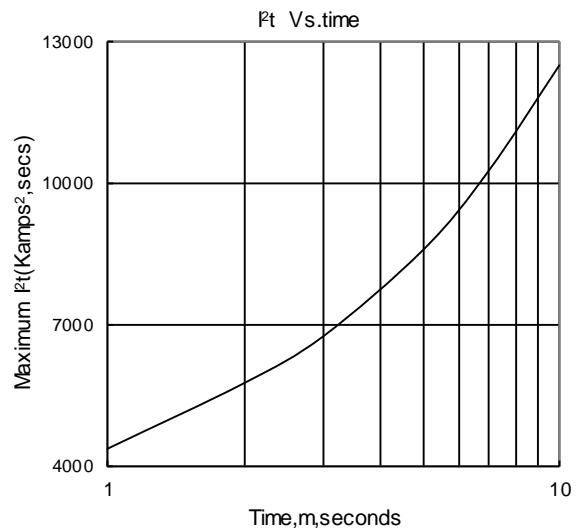
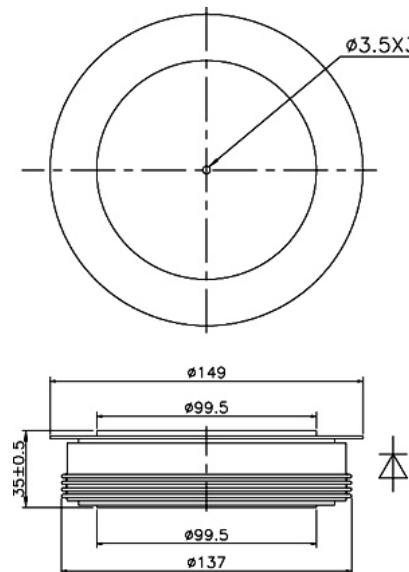


Fig.8

**Outline:**

TECHSEM reserves the right to change specifications without notice.