**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. Y76ZPD-ZT73dT**

<b>I<sub>F(AV)</sub></b>	<b>4000A</b>
<b>V<sub>RRM</sub></b>	<b>2200V 2500V 2800V 3000V</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	T <sub>C</sub> =85°C	160			4000	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	tp=10ms		160	2200		3000	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub> tp=10ms		160			200	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave V <sub>R</sub> =0.6V <sub>RRM</sub>		160			45	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination						10125	10 <sup>3</sup> A <sup>2</sup> s
V <sub>FO</sub>	Threshold voltage			160			0.90	V
r <sub>F</sub>	Forward slope resistance						0.099	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =5000A, F=40kN		25			1.54	V
Q <sub>rr</sub>	Recovery charge	I <sub>FM</sub> =2000A, tp=4000μs, di/dt=-20A/μs, V <sub>R</sub> =100V		160		5000		μC
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	Double side cooled					0.010	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink	Clamping force 40kN					0.003	
F <sub>m</sub>	Mounting force				35		47	kN
T <sub>vj</sub>	Junction temperature				-40		160	°C
T <sub>stg</sub>	Stored temperature				-40		160	°C
W <sub>t</sub>	Weight					1460		g
Outline	ZT73dT							

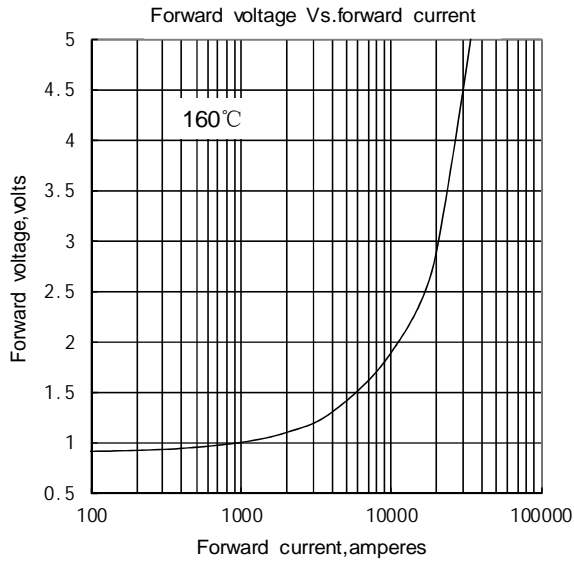


Fig.1

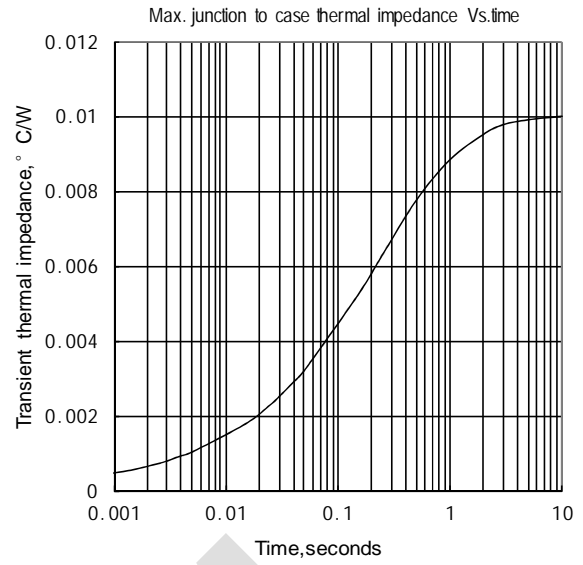


Fig.2

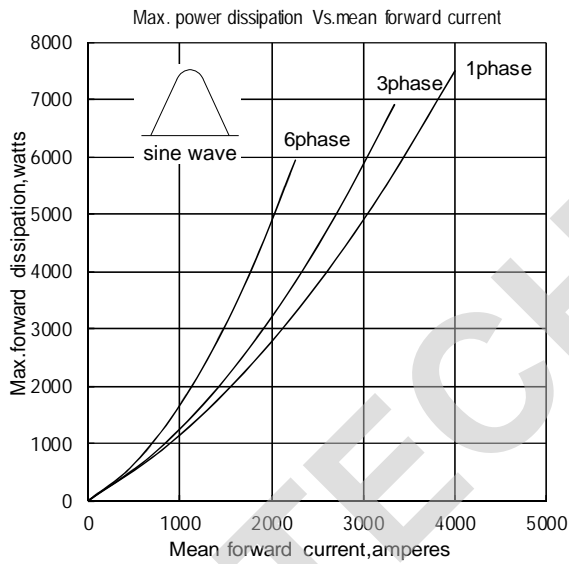


Fig.3

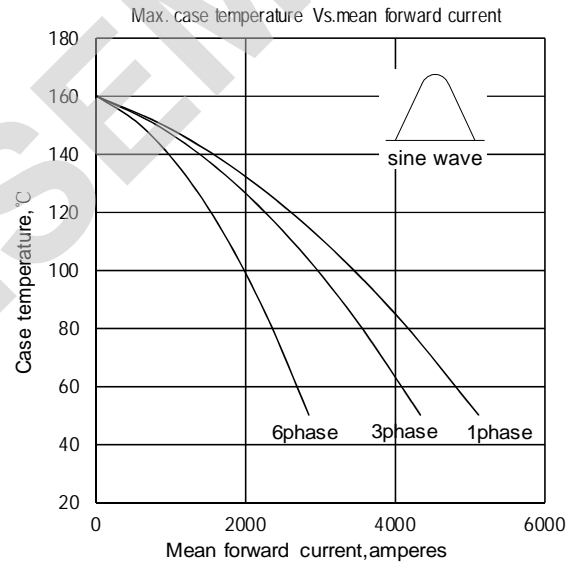


Fig.4

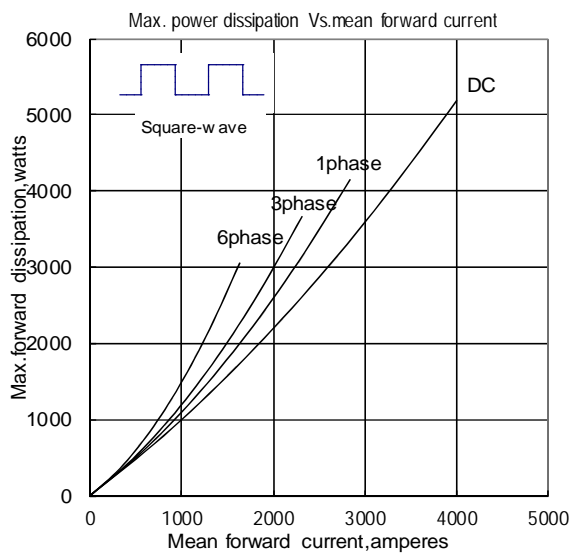


Fig.5

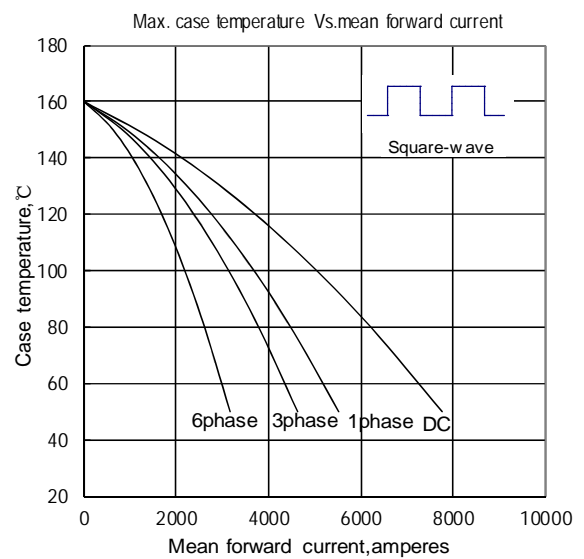


Fig.6

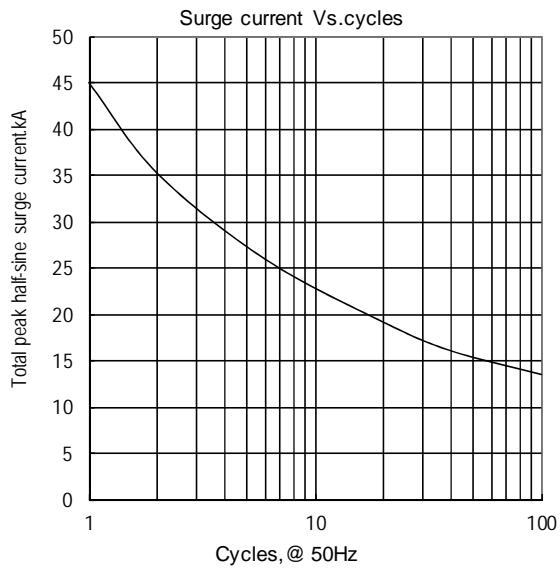


Fig.7

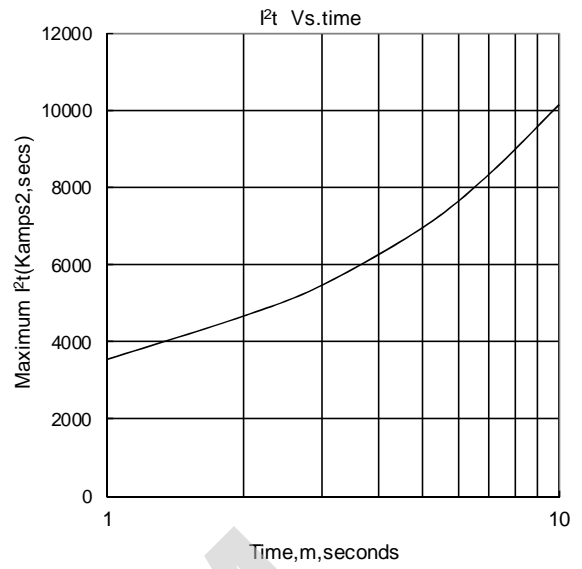
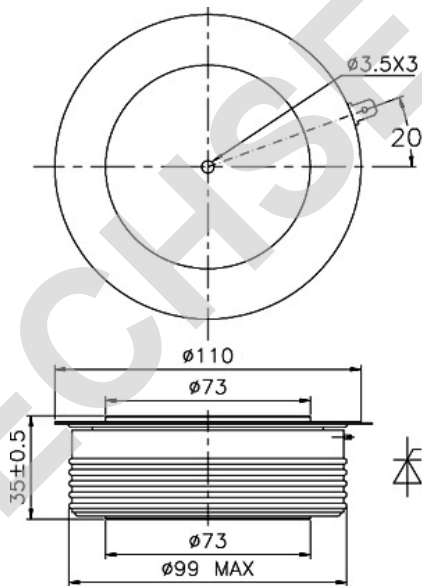


Fig.8

Outline:



TECHSEM reserves the right to change specifications without notice.