**Features**

- n International standard package
- n Planar glassivated chips

**Typical Applications**

- n High power rectifiers
- n Field supply for DC motors
- n Power supplies

**Part No. ZP25-50-ZL06Ac**

<b>I<sub>F(AV)</sub></b>	<b>25A</b>
<b>V<sub>RRM</sub></b>	<b>4000V 4500 V</b> <b>4800 V 5000 V</b>
<b>I<sub>FSM</sub></b>	<b>0.375 kA</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> =104°C 150			25	A
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub> tp=10ms	25			300	μA
			150			3	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	150			375	A
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				700	A <sup>2</sup> s
V <sub>FO</sub>	Threshold voltage		150			0.90	V
r <sub>F</sub>	Forward slope resistance					9.25	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =60A	25			1.95	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine, double side cooled Clamping force 2.4N·m				1.0	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink					0.3	
F <sub>m</sub>	Mounting force				2.4	2.9	N·m
T <sub>vj</sub>	Junction temperature			-40		150	°C
T <sub>stg</sub>	Stored temperature			-40		150	°C
W <sub>t</sub>	Weight				20		g
Outline	ZL06Ac						

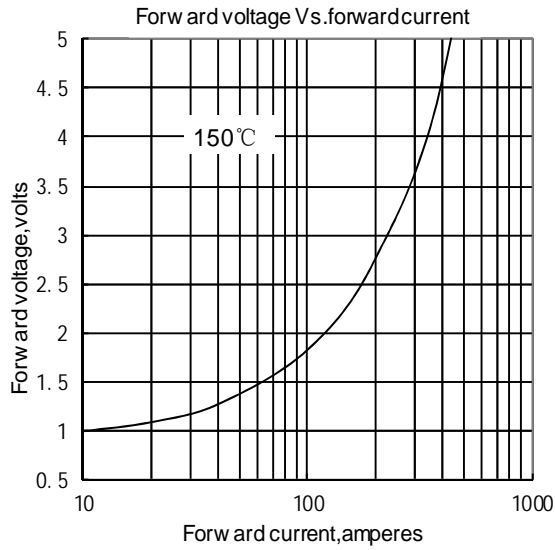


Fig.1

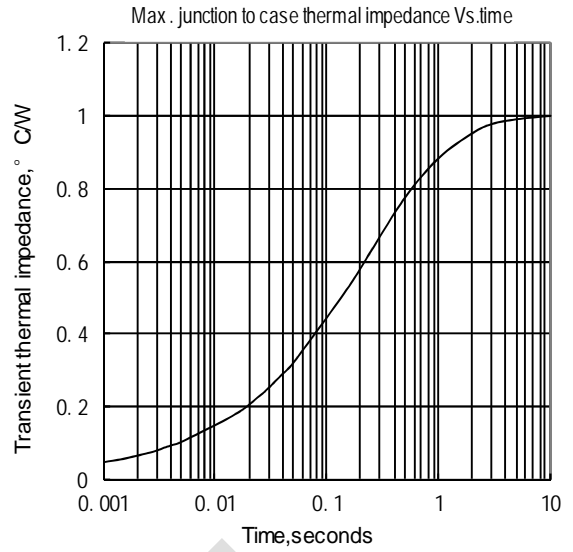


Fig.2

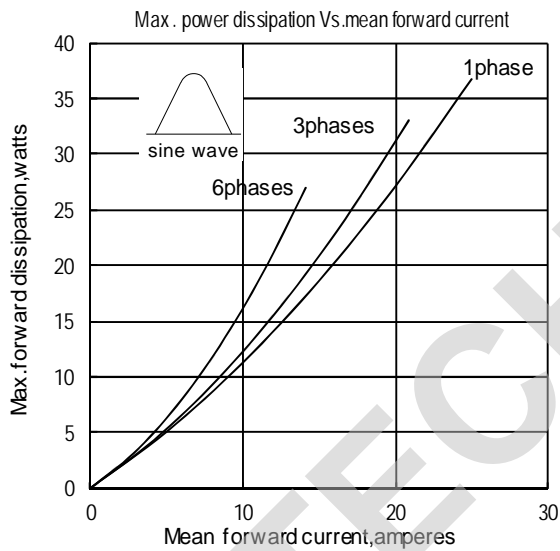


Fig.3

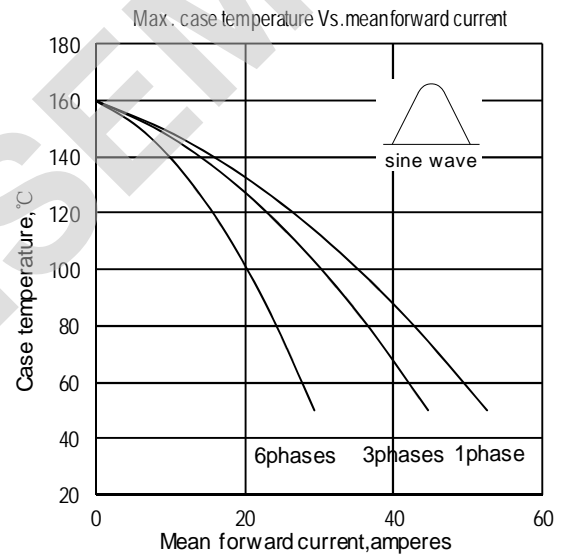


Fig.4

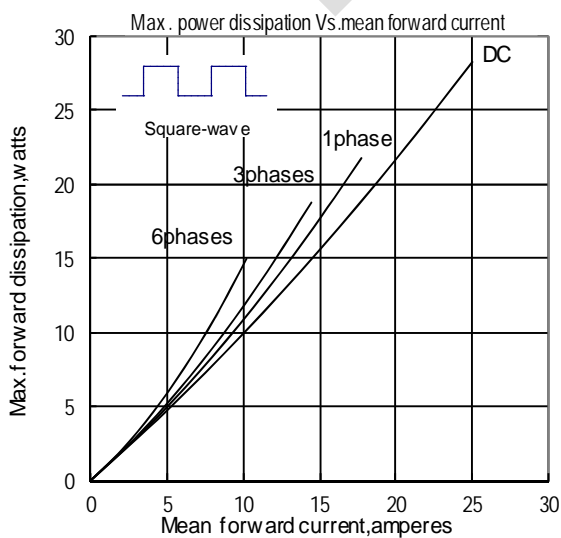


Fig.5

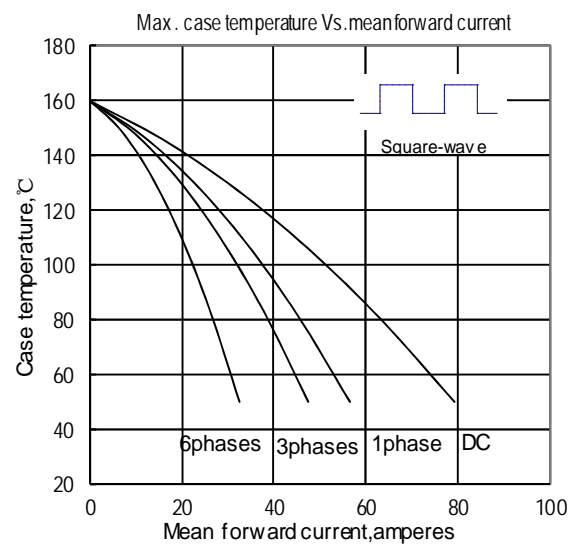


Fig.6

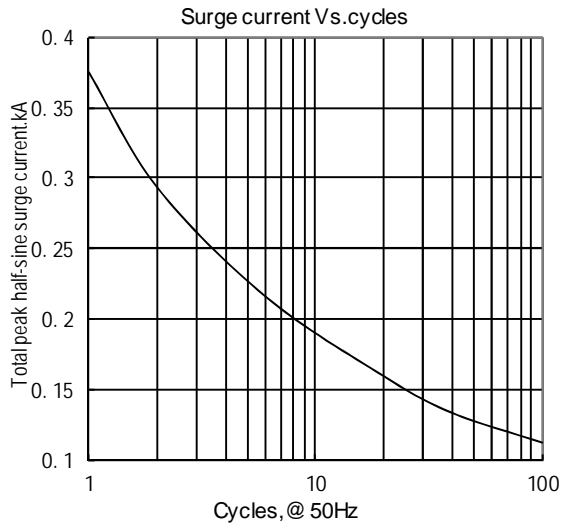


Fig.7

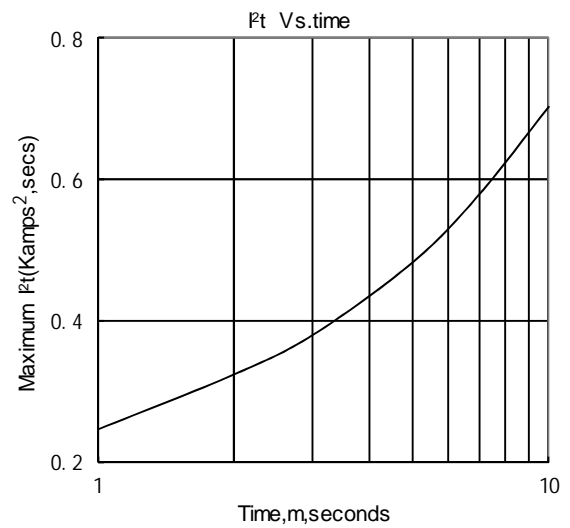
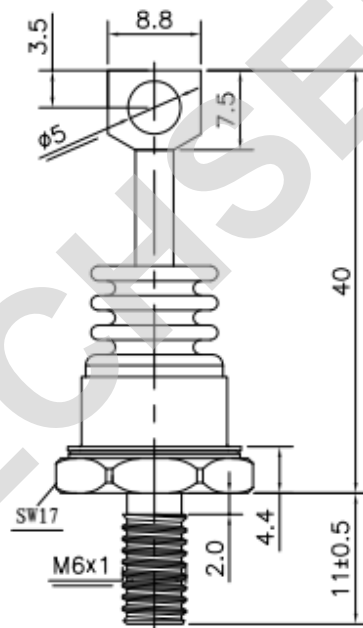


Fig.8

**Outline:**



Unmarked dimensional tolerance: ±0.5mm

TECHSEM reserves the right to change specifications without notice.