



浙江世菱电力电子有限公司  
ZHEJIANG SHILING POWER ELECTRON CO.,LTD.

# 产品规格书

## Specification of Products

产品名称：整流管模块

产品型号：MDC182A

浙江世菱电力电子有限公司

ZHEJIANG SHILING POWER ELECTRON CO.,LTD.

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拟制	审核	核准
丁国盛	曹剑龙	宗瑞

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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sinewave 50Hz Single side cooled, $\bar{T}=100^{\circ}\text{C}$	150			182	A
I <sub>F(RMS)</sub>	RMS forward current	Single side cooled, $\bar{T}=100^{\circ}\text{C}$	150			286	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>DRM</sub> &V <sub>RRM</sub> +200V	150	600		2200	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			12	mA
I <sub>FSM</sub>	Surge forward current	10ms half sinewave	150			6.40	KA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					209
V <sub>FO</sub>	Threshold voltage		150			0.80	V
r <sub>F</sub>	Forward slop resistance						0.96
V <sub>FM</sub>	Peak forward voltage	I <sub>M</sub> =546A	25			1.1	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to heatsink	At 180° sine Single side cooled				0.220	°C /W
V <sub>iso</sub>	Isolation voltage	50Hz, RM. S, t=1min, i <sub>iso</sub> : 1mA(max)		2500			V
F <sub>m</sub>	Terminal connection torque(M6)					3.0	N.m
	Mounting torque(M6)					3.0	N.m
T <sub>stg</sub>	Stored temperature			-40		125	°C
W <sub>t</sub>	Weight					220	g
Outline							

### OUTLINE DRAWING & CIRCUIT DIAGRAM



## Rating and Characteristic

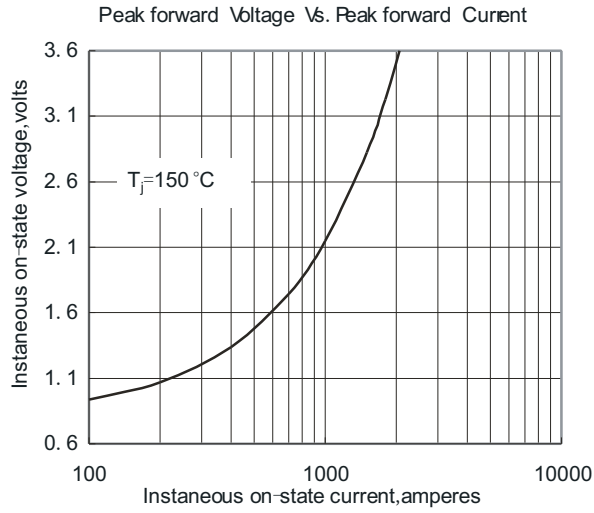


Fig. 1

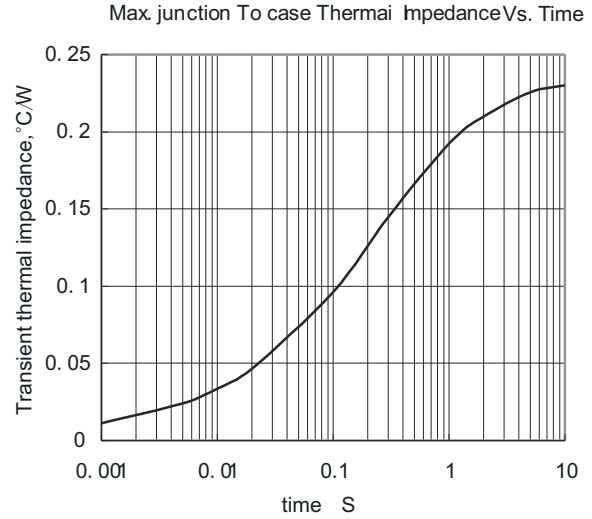


Fig. 2

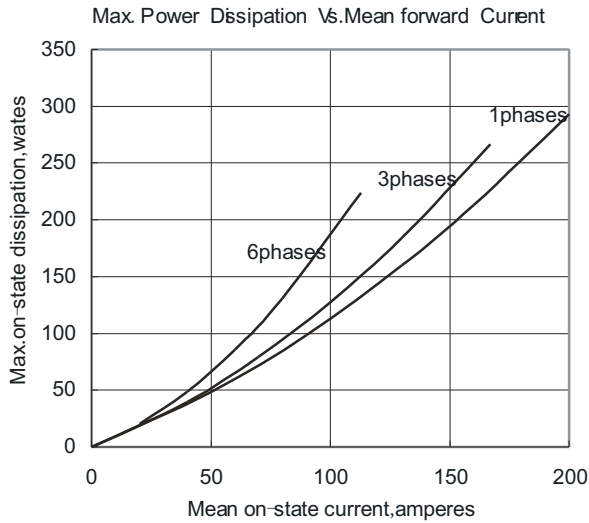


Fig. 3

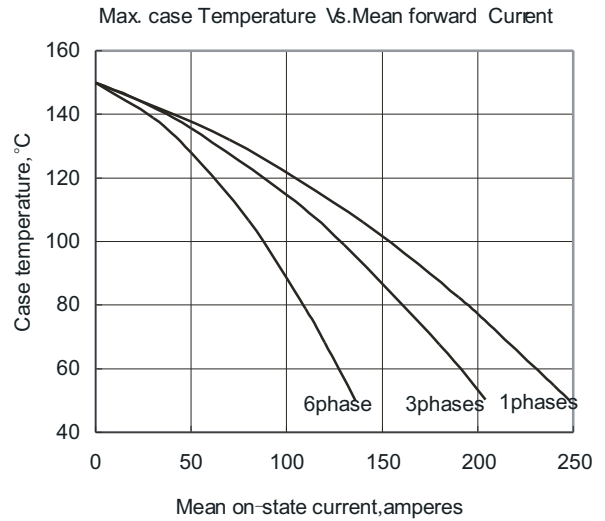


Fig. 4

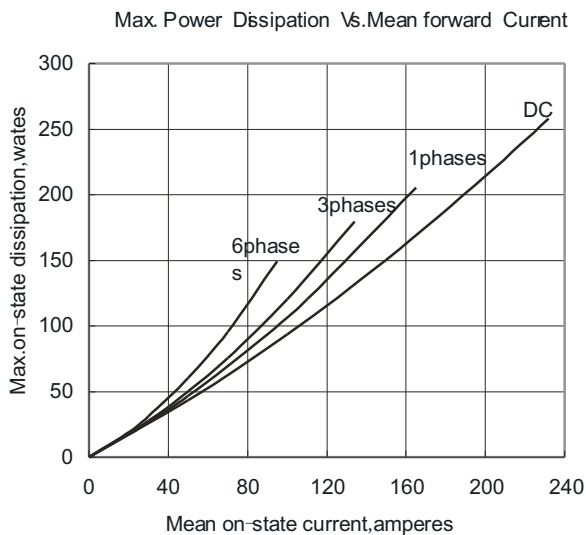


Fig. 5

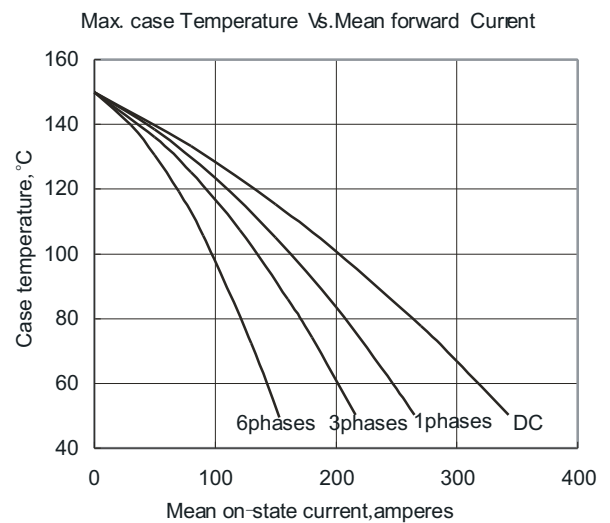


Fig. 6

## Outside Dimension

