ShiLing® 浙江世菱半导体有限公司
ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

产品规格书

Specifcation of products

产品名称:整理管模块

产品型号:MDC46A-T02

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ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

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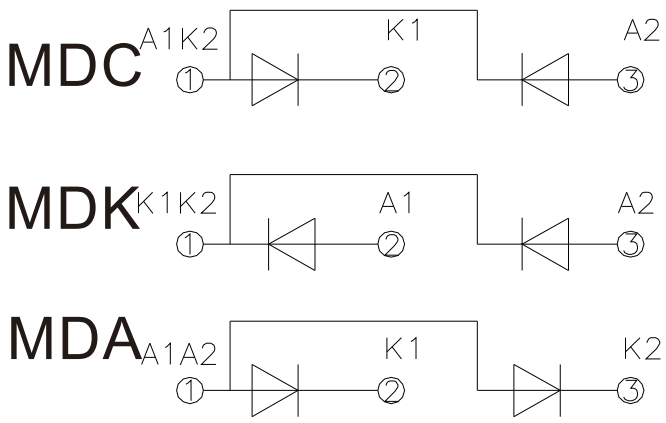
拟制	审核	核准
林益龙	曹剑龙	宗瑞

版本号:05 更新日期:2023.8

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(℃)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled,T_C=100°C	150			46	A
$I_{F(RMS)}$	RMS forward current	Single side cooled,T_C=100°C	150			72	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RsM}= V_{DRM}&V_{RRM}+200V	150	600		2200	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			3	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0. 6V_{RRM}	150			1. 10	KA
I^2t	I^2T for fusing coordination					5. 6	A^2s*10^3
V_{FO}	Threshold voltage		150			0. 80	V
r_F	Forward slop resistance					3. 47	mΩ
V_{FM}	Peak forward voltage	I_{FM}=150A	25			1. 1	V
$R_{th(j-c)}$	Thermal resistance Junction to heatsink	At 180^0 sine, Single side cooled				0. 700	°C /W
V_{iso}	Isolation voltage	50Hz, R.M. S, t=1min, I_{iso} : 1mA(max)		2500			V
F_m	Terminal connection torque(M5)				4. 0		N.m
	Mounting torque(M6)				5. 0		N.m
T_{stg}	Stored temperature			-40		150	°C
W_t	Weight				110		g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM



Rating and Characteristic

Peak forward Voltage Vs. Peak forward Current

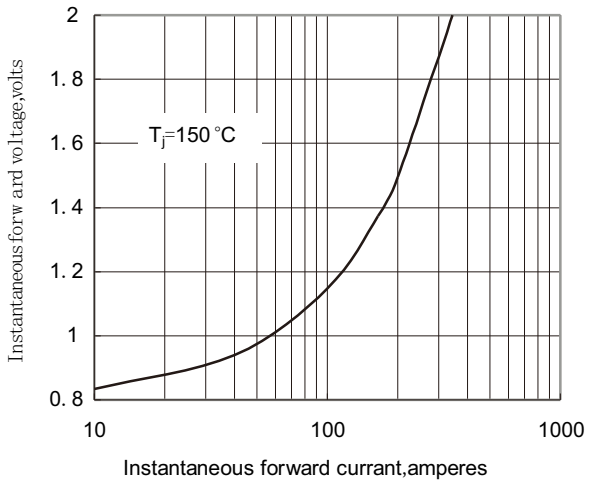


Fig. 1

Max. junction To case Thermai Impedance Vs. Time

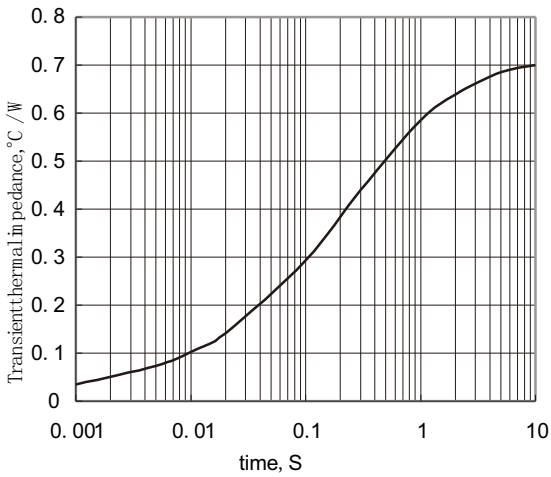


Fig. 2

Max. Power Dissipation Vs.Mean forward Current

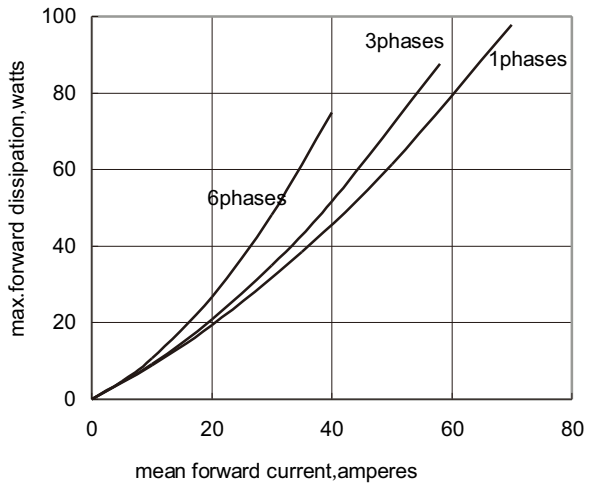


Fig. 3

Max. case Temperature Vs.Mean forward Current

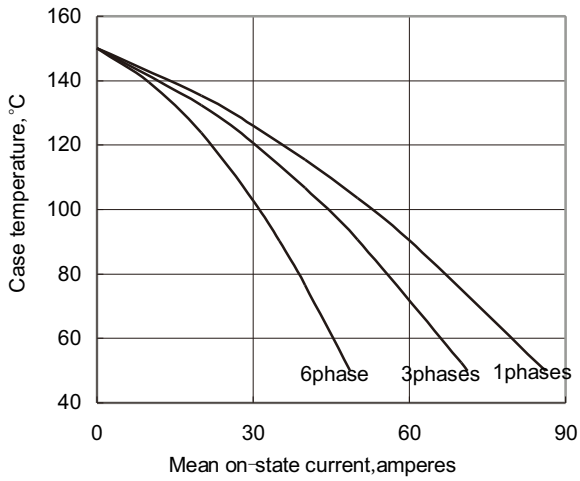


Fig. 4

Max. Power Dissipation Vs.Mean forward Current

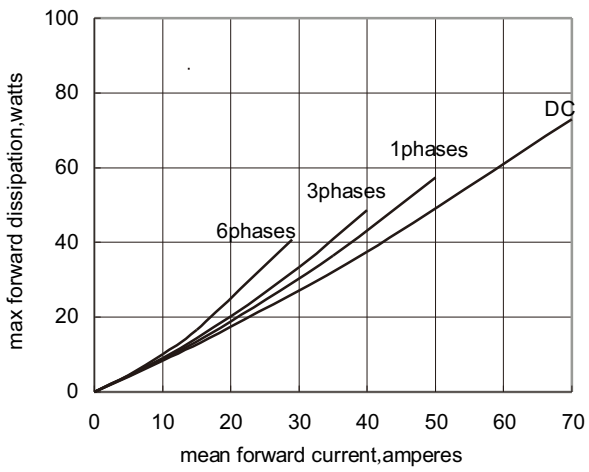


Fig. 5

Max. case Temperature Vs.Mean forward Current

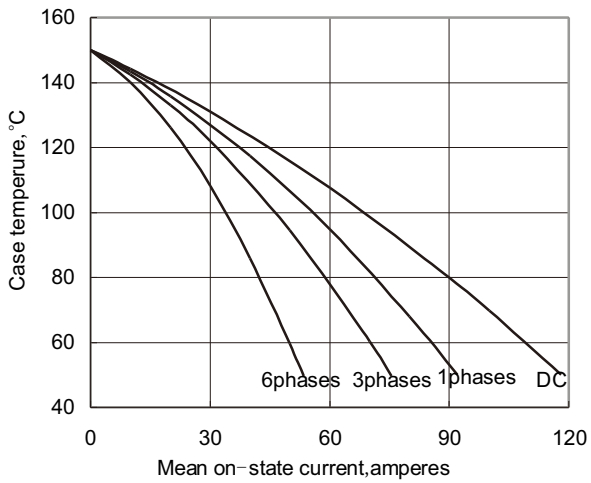
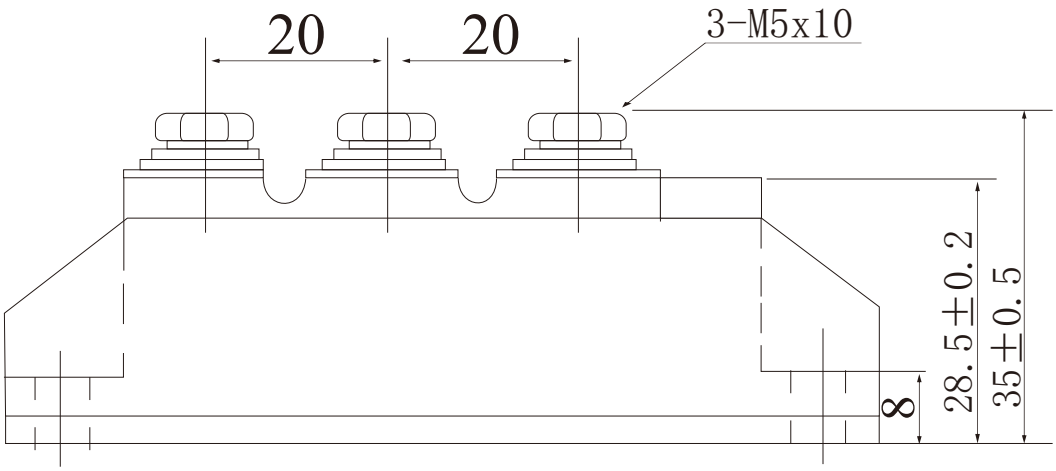
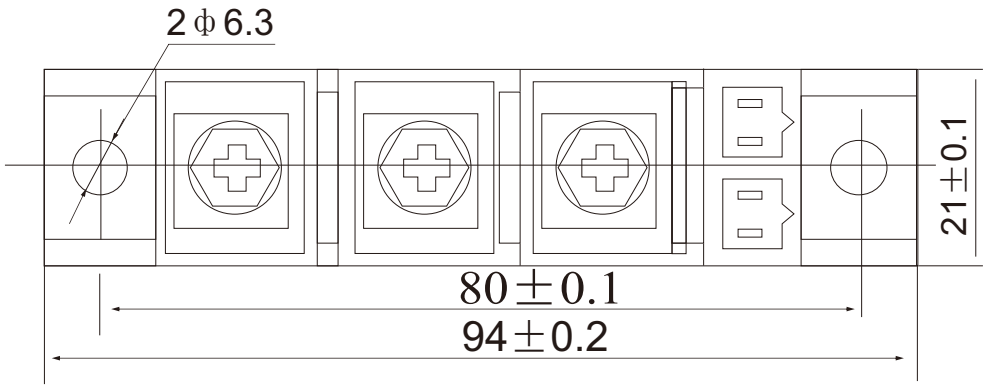


Fig. 6

Outside Dimension