ShiLing®

浙江世菱半导体有限公司

ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

Specifcation of products

：

：MDQ100A-T12

ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j (℃)	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Single-phase full wave rectifying circuit, T_C=100 °C	150			100	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			10	mA
I_{FSM}	Surge forward current	10ms half sinewave V_R=0. 6V_{RRM}	150			1. 50	KA
I^2t	I^2T for fusing coordination					11. 4	A^2s*10^3
V_{FO}	Threshold voltage		150			0. 80	V
r_F	Forward slop resistance					4. 5	mΩ
V_{FM}	Peak forward voltage	I_{FM}=100A	25			1. 1	V
$R_{th(j-c)}$	Thermal resistance Junction to heatsink	Single side cooled				0. 240	°C /W
V_{iso}	Isolation voltage	50Hz, R.M. S, t=1min, I_{iso}: 1mA (max)		2500			V

OUTLINE DRAWING & CIRCUIT DIAGRAM

Rating and Characteristic

Fig. 1

Fig. 2

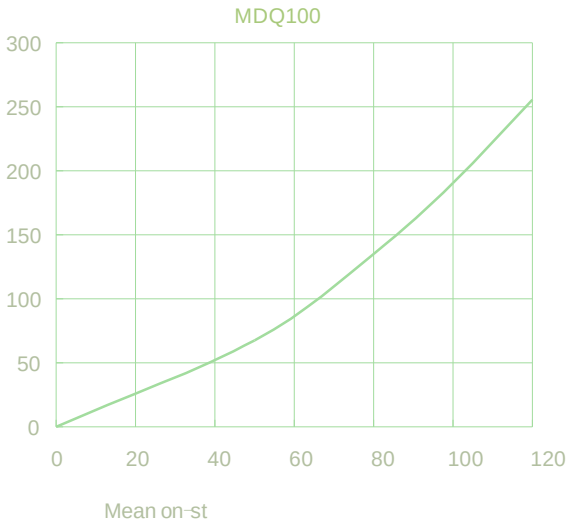
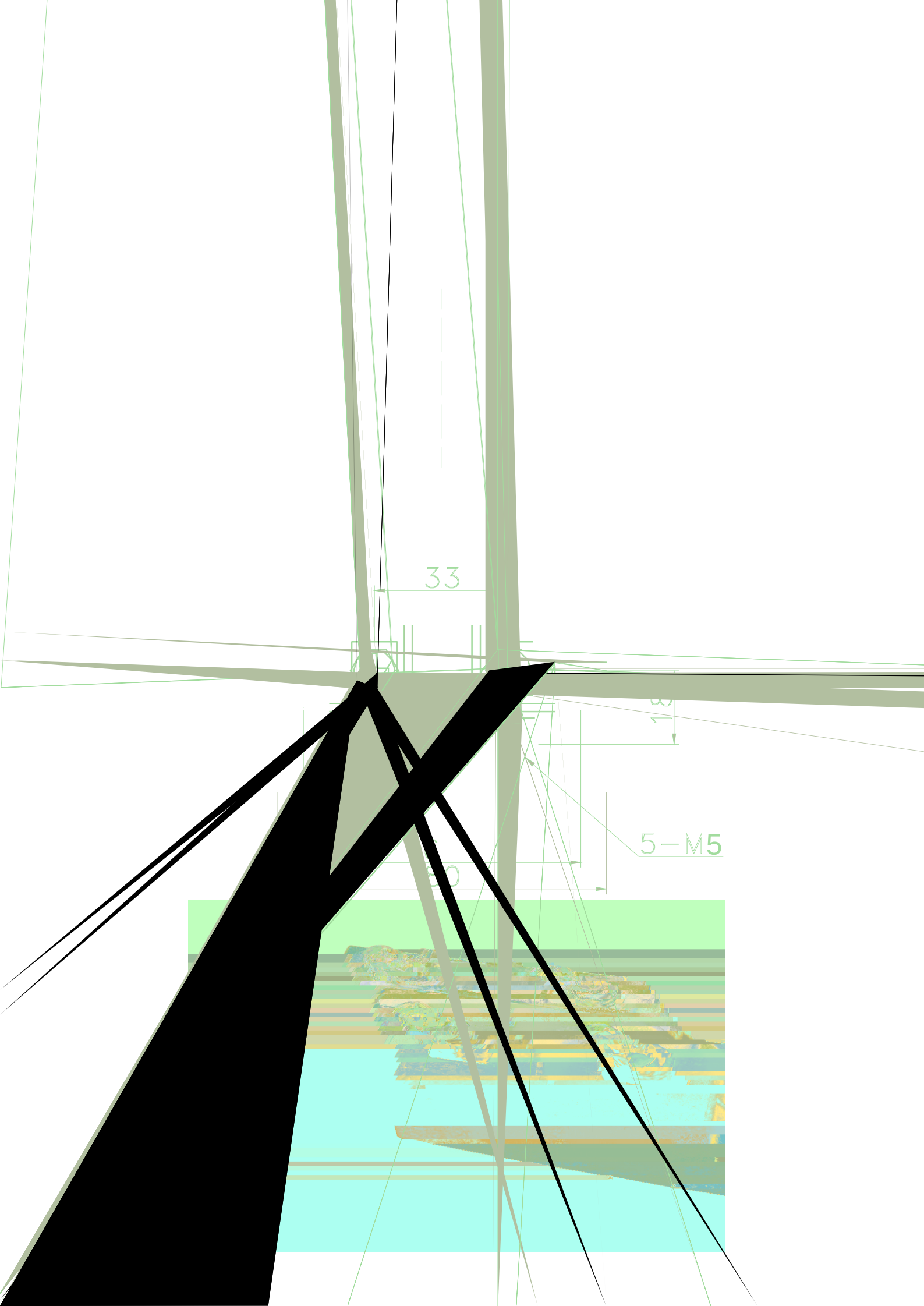


Fig. 3

Fig. 4

Fig. 5

Fig. 6


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