



浙江芯芯电子有限公司
ZHEJIANG XINXIN ELECTRICAL CO., LTD.

产品规格书

Specification of Products

产品名称：可控硅模块

产品型号：MTG200A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTRICAL CO., LTD.

地址：浙江省缙云县壶镇镇浙江丽缙五金科技产业园苍山区块内

电话： 13857067071

邮编： 321404

E-mail:247145749@qq.com

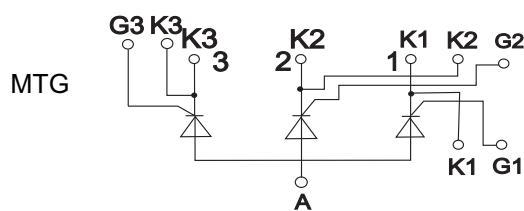
<http://www.zjxxdz1.com>

拟制	审核	核准
丁国盛	李园利	麻伟阳

版本号：04 更新日期：2022.6.28

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sinewave 50Hz Single side cooled, $T=90^\circ\text{C}$	125			200	A
$I_{T(RMS)}$	RMS on-state current	Single side cooled, $T=90^\circ\text{C}$	125			314	A
V_{DRM} V_{RRM}	Repetitive peak offstate voltage Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM}$ tp=10ms $V_{DSM} \& V_{RSM} = V_{DRM} \& V_{RRM} + 200\text{V}$ respectively	125	800		1800	V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			20	mA
I_{TSM}	Surge on-state current	10ms half sine wave $V_R=60\%V_{RRM}$	125			6.50	KA
I^2t	I^2t for fusing coordination					215	$\text{As} \times 10^3$
V_{TO}	Threshold voltage		125			0.80	V
r_T	On-state slope resistance					1.15	$\text{m}\Omega$
V_{TM}	Peak on-state voltage I	$T_M=600\text{A}$	125			1.4	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	125			800	$\text{V}/\mu\text{s}$
di/dt	Critical rate of rise of on-state current	From 67% V_{DRM} to 600A, Gate source 1.5A $t_r \leq 0.5 \mu\text{s}$ Repetitive	125			100	$\text{A}/\mu\text{s}$
I_{GT}	Gate trigger current			30		150	mA
V_{GT}	Gate trigger voltage	$V_A=12\text{V}, I_A=1\text{A}$	25	0.8		2.0	V
I_H	Holding current			20		100	mA
V_{GD}	Non-trigger gate voltage	At 67% V_{DRM}	125			0.2	V
$R_{th(j-c)}$	Thermal resistance Junction to heatsink	Single side cooled				0.130	$^\circ\text{C}/\text{W}$
F_m	Thermal connection torque (M6)					3.0	N.m
	Mounting torque (M6)					3.0	N.m
T_{stg}	Stored temperature			-40		140	$^\circ\text{C}$
W_t	Weight					294	g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM



Rating and Characteristic

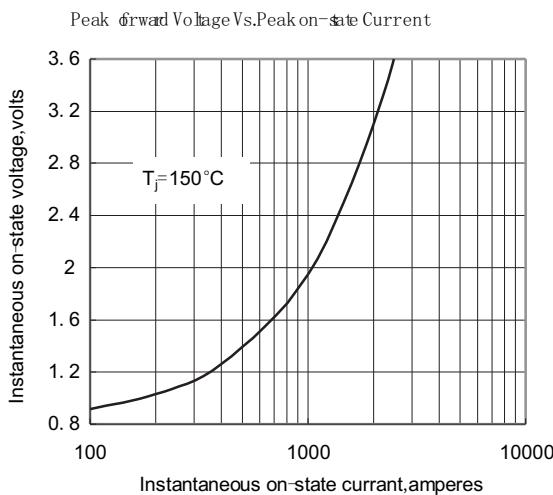


Fig. 1

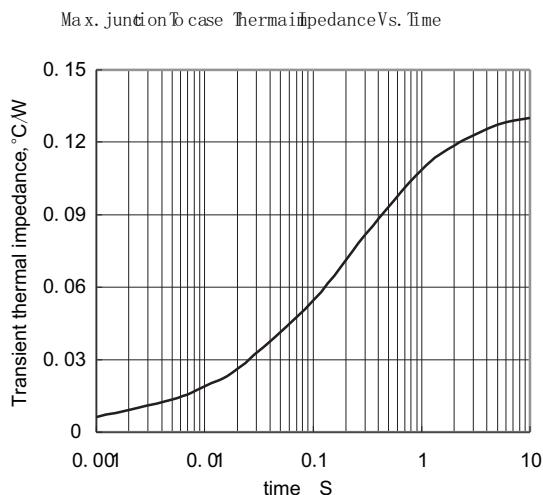


Fig. 2

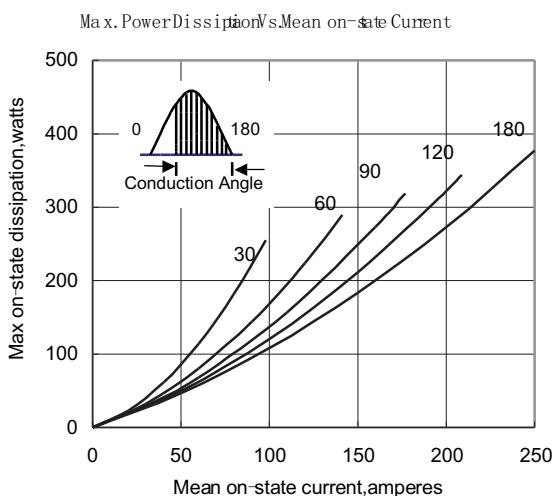


Fig. 3

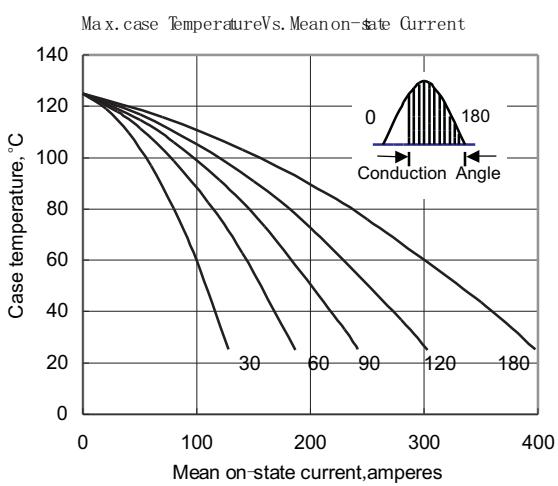


Fig. 4

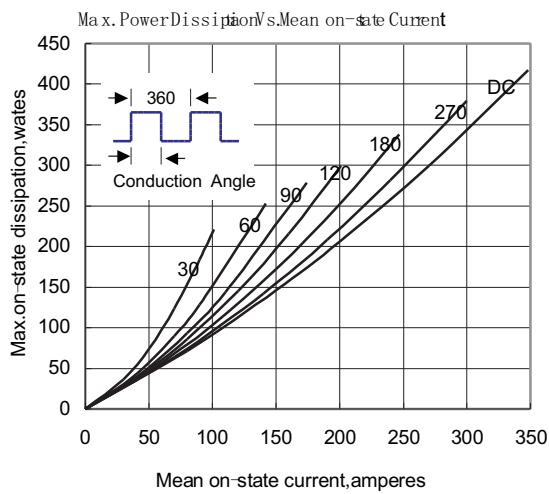


Fig. 5

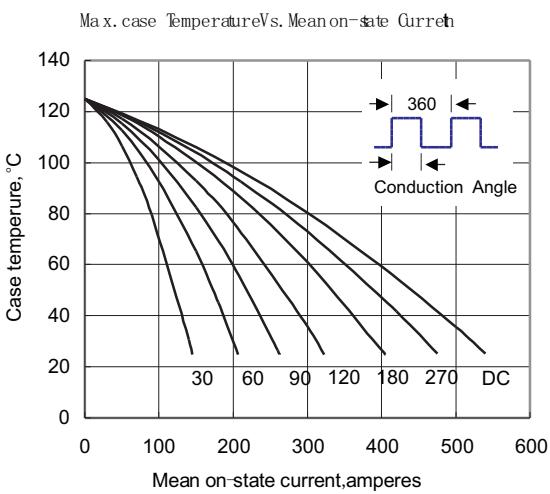


Fig. 6

震扬®

浙江芯芯电子有限公司
ZHEJIANG XINXIN ELECTRICAL CO., LTD.

Outside Dimension

