

产品规格书

Specifcation of products

产品名称:可控硅模块

产品型号: MTG100A-T20

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

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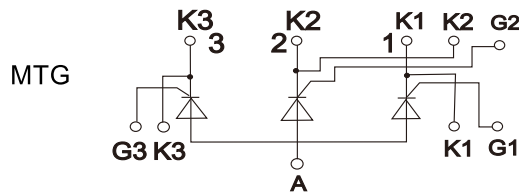
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拟制	审核	核准
林益龙	曹剑龙	宗瑞

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz Single side cooled, T _C =90° C	125			100	A
I _{T(RMS)}	RMS on-state current	Single side cooled, T _C =90° C	125			157	A
V _{DRM} V _{RDM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	V _{DRM} &V _{RDM} tp=10ms V _{DSM} &V _{RSM} = V _{DRM} &V _{RDM} +200V respectively	125	800		1800	V
I _{DRM} I _{RDM}	Repetitive peak current	at V _{DRM} at V _{RDM}	125			12	mA
I _{TSM}	Surge on-state current	10ms half sine wave	125			3.20	KA
I ² t	I ² T for fusing coordination	V _R =60%V _{RDM}				52.2	A ² s*10 ³
V _{TO}	Threshold voltage		125			0.80	V
r _T	On-state slop resistance					2.45	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =300A	125			1.4	V
dv/dt	Critical rate of rise of off-state voltage	V _{DM} =67%V _{DRM}	125			800	V/μs
di/dt	Critical rate of rise of on-state voltage current	From 67%V _{DRM} to 300A, Gate source 1.5A t _r ≤0.5μs Repetitive	125			100	A/μs
I _{GT}	Gate trigger current			30		100	mA
V _{GT}	Gate trigger voltage	V _A =12V, I _A =1A	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				0.250	°C /W
F _m	Thermal connection torque(M5)					4.0	N.m
	Mounting torque(M6)					5.0	N.m
T _{stg}	Stored temperature			-40		140	°C
W _t	Weight					150	g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM



Rating and Characteristic

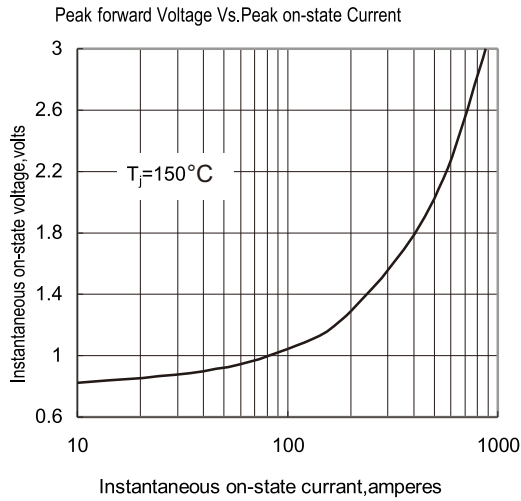


Fig.1

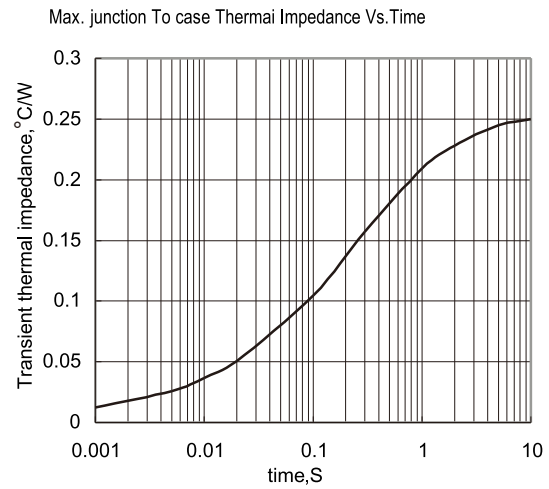


Fig.2

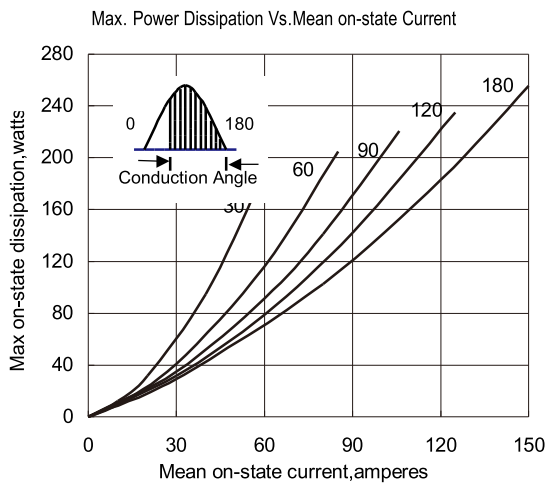


Fig.3

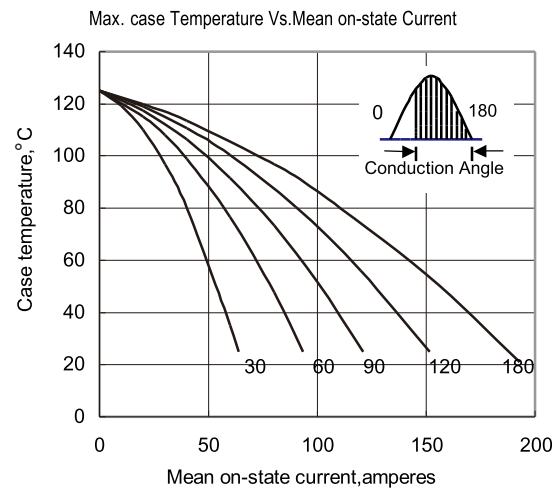


Fig.4

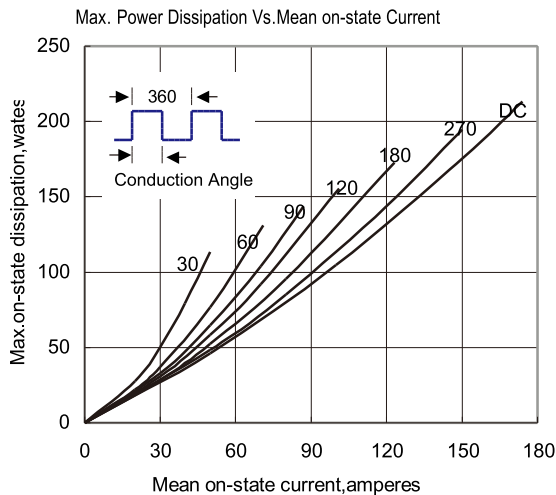


Fig.5

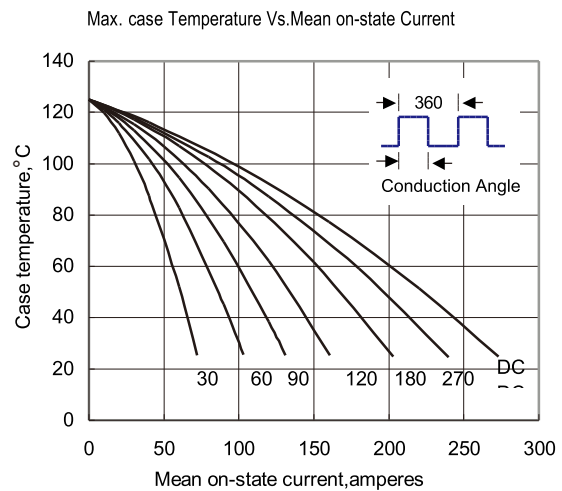


Fig.6

Outside Dimension

