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:可控硅模块

产品型号:SKKT106A/16E-T02

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

地址:浙江省 丽水市 莲都区
电话:(0578)3012571 3615078
传真:(0578)3611180
邮编: 323000
E-mail:smrshiling01@163.com
Http//www.smrshiling.com

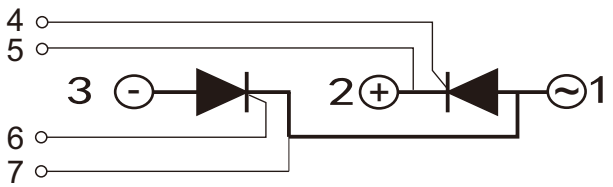
拟制	审核	核准
林益龙	曹剑龙	宗瑞

版本号:05 更新日期:2023.8

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180 half sine wave 50Hz Single side cooled, T_c=85 C	125			106	A
$I_{T(RMS)}$	RMS on-state current		125			166	A
V_{DRM} V_{RRM}	Repetitive peak o ff-state voltage Repetitive peak reverse voltage	V_{DRM} &V_{RRM} tp=10ms V_{DsM} &V_{RsM} = V_{DRM} &V_{RRM} +200V	125	600		1800	V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			12	mA
I_{TSM}	Surge on-state current	10ms half sine wave V_R=60%V_{RRM}	125			2.20	KA
I^2t	I^2T for fusing coordination					24.2 A	$^2s*10^3$
V_{TO}	Threshold voltage		125			0.8	V
r_T	On-state slop resistance					2.29	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=330A	25			1.50	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 current	Gate source 1.5A $t_r \leqslant 0.5\mu s$ Repetitive	125			100	A/μs
I_{GT}	Gate trigger current	V_A=12V, I_A=1A	25	30		100	mA
V_{GT}	Gate trigger voltage			1.0		2.5	V
I_H	Holding current			20		120	mA
V_{GD}	Non-trigger gate voltage	V_{DM}=67%V_{DRM}	125	0.2			V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled per chip				0.250	C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled per chip				0.15	C /W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(MAX)		2500			V
F_m	Thermal connection torque(M5)				4.0		N m
	Mounting torque(M6)				5.0		N m
T_{stg}	Stored temperature			-40		125	C
W_t	Weight				122		g
Outline	T-02						

OUTLINE DRAWING & CIRCUIT DIAGRAM

SKKT :



Rating and Characteristic

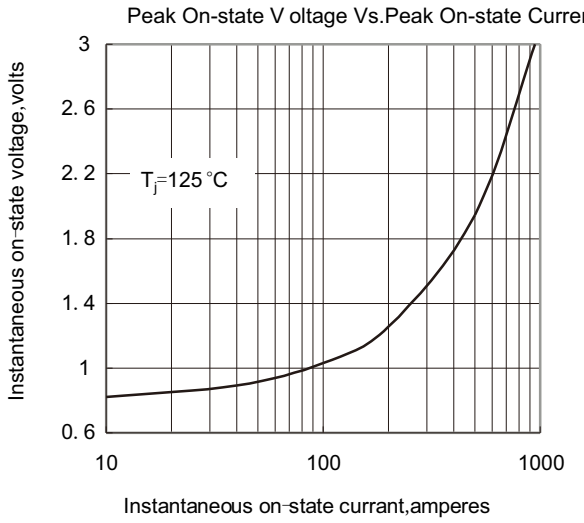


Fig. 1

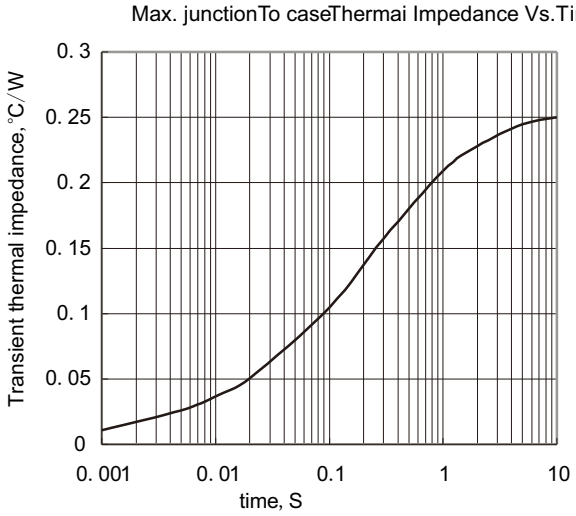


Fig. 2

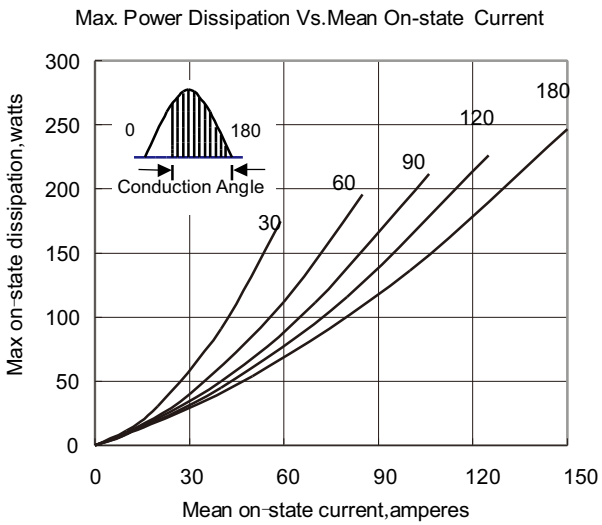


Fig. 3

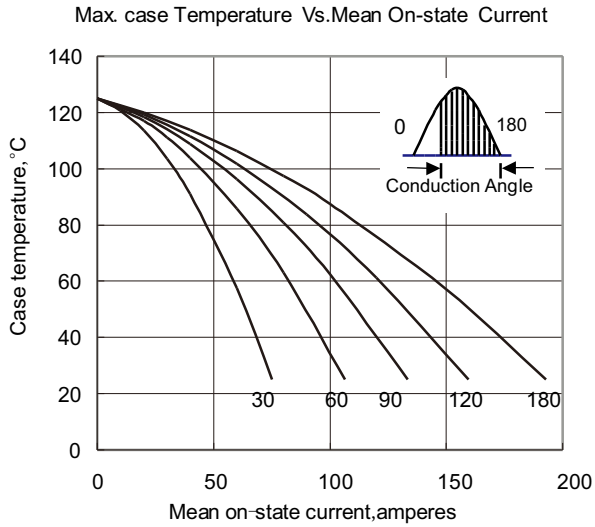


Fig. 4

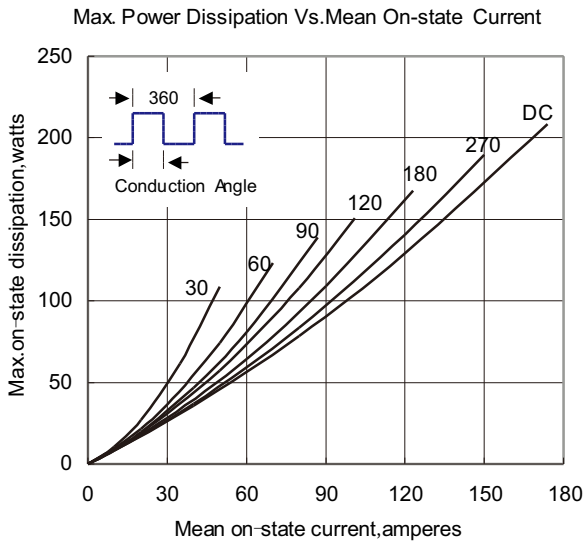


Fig. 5

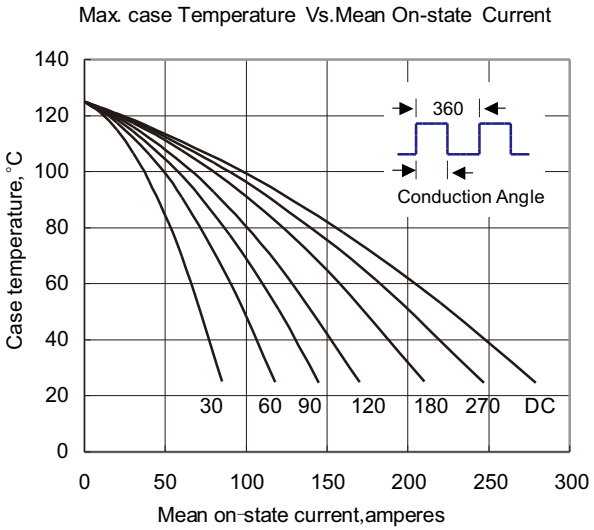


Fig. 6

Rating and Characteristic

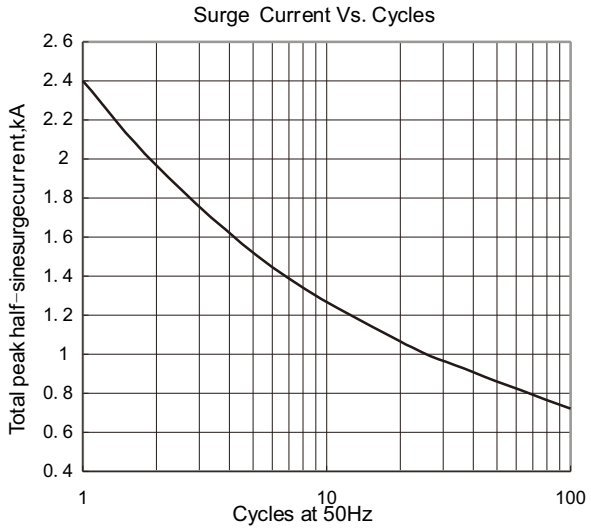


Fig. 7

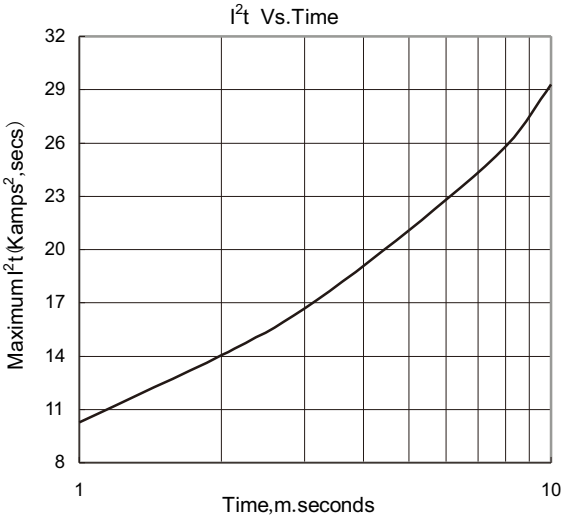


Fig. 8

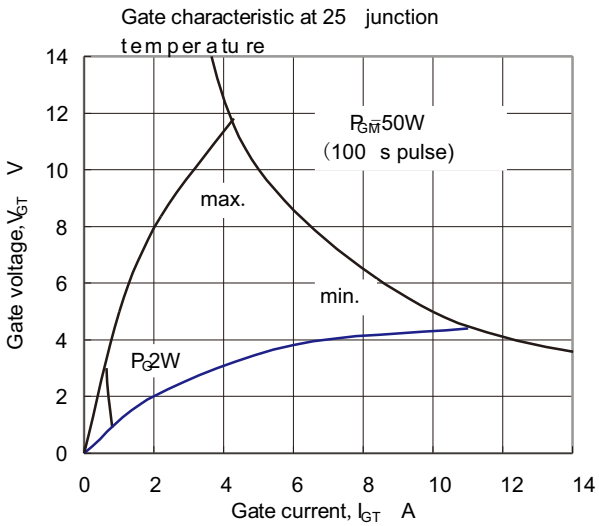


Fig. 9

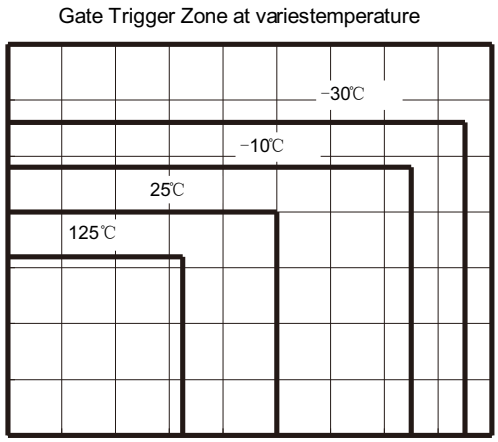


Fig. 10

Outside Dimension