产品规格书

Specification of Products

产品名称：可控硅模块

产品型号：SKKH330A/16E

浙江芯芯电子有限公司
ZHEJIANG XINXIN ELECTIRICAL 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

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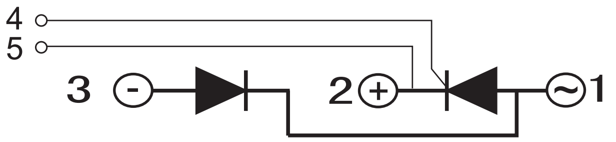
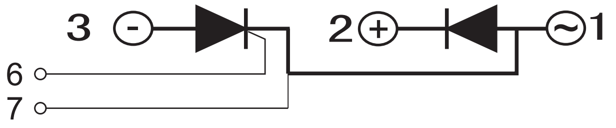
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(℃)				UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sinewave 50Hz Single side cooled, T_c=85°C	125			330	A
$I_{T(RMS)}$	RMS on-state current	Single side cooled, T_c=85°C	125			518	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	V_{DRM}&V_{RRM} tp=10ms V_{DsM}&V_{RsM}= V_{DRM}&V_{RRM}+200V respectively	125		1600	1800	V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			30	mA
I_{TSM}	Surge on-state current	10ms half sinewave V_R=60%V_{RRM}	125			8. 50	KA
I^2t	I^2T for fusing coordination					368	A^2s*10^3
V_{TO}	Threshold voltage		125			0. 80	V
r_T	On-state slop resistance					0. 85	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=990A	125			1. 50	V
dv/dt	Critical rate of rise of off-state voltage	V_{DM}=67%V_{DRM}	125			1000	V/μs
di/dt	Critical rate of rise of on-state current	From 67%V_{DRM} To 750A,Gate source 1. 5A t_r≤0. 5μs Repetitive	125			250	A/μs
I_{GT}	Gate trigger current	V_A=12V, I_A=1A	25	30		180	mA
V_{GT}	Gate trigger voltage			1. 0		2. 5	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	At 180° sine, Single side cooled				0. 120	°C /W
V_{iso}	Isolation voltage	50Hz, RM. S, t=1min, I_{iso}: 1mA(MAX)		2500			V
F_m	Thermal connection torque(M8)				4.5		N.m
	Mounting torque(M6)				3.0		N.m
T_{stg}	Stored temperature			-40		150	°C
W_t	Weight				900		g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM

SKKH:



A



B

Rating and Characteristic

Peak On-state Voltage Vs. Peak On-state Current

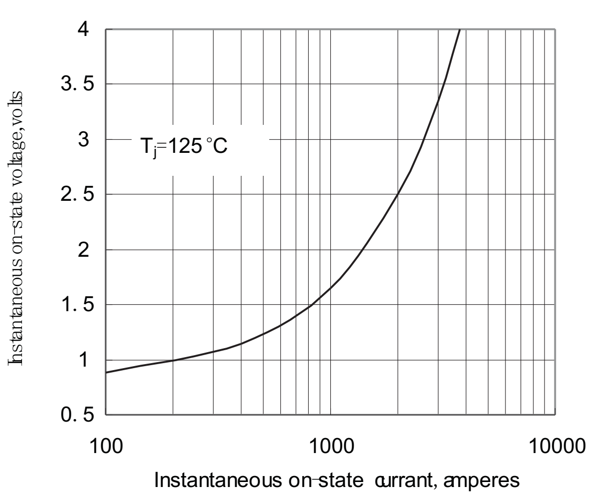


Fig.1

Max. junction To case Thermal Impedance Vs.Time

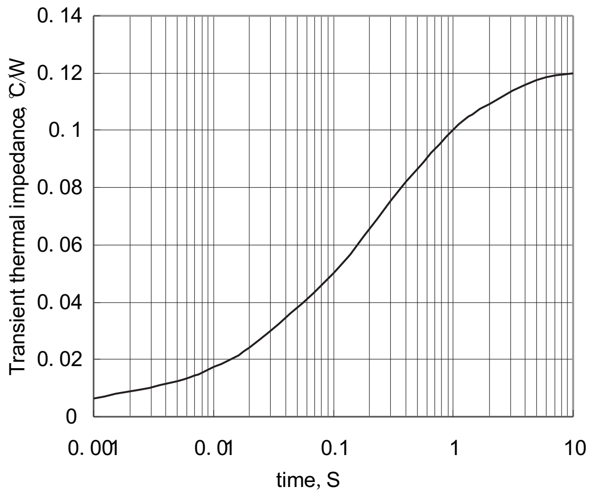


Fig. 2

Max. Power Dissipation Vs.Mean On-state Current

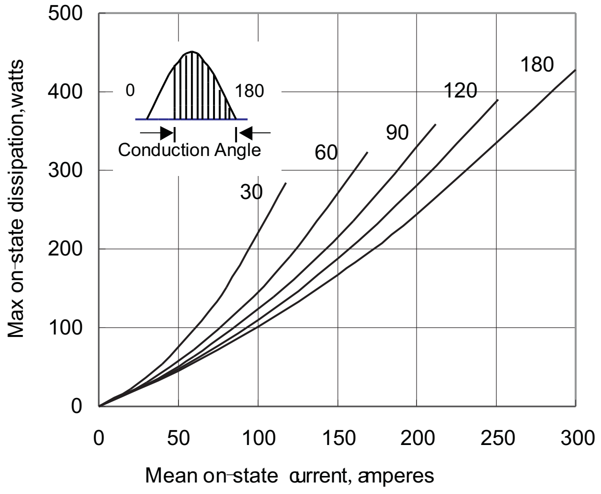


Fig.3

Max. case Temperature Vs.Mean On-state Current

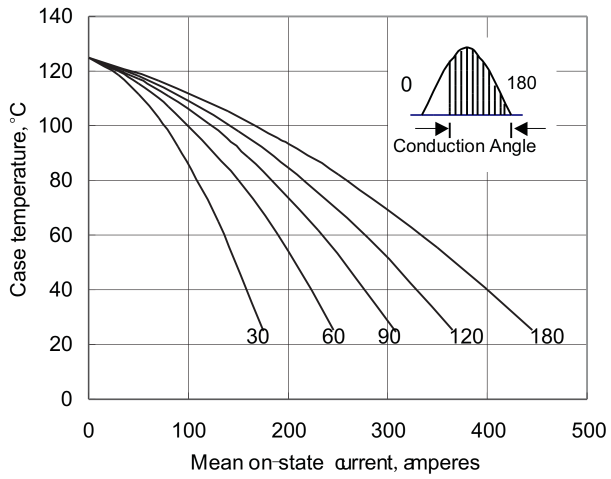


Fig.4

Max. Power Dissipation Vs.Mean On-state Current

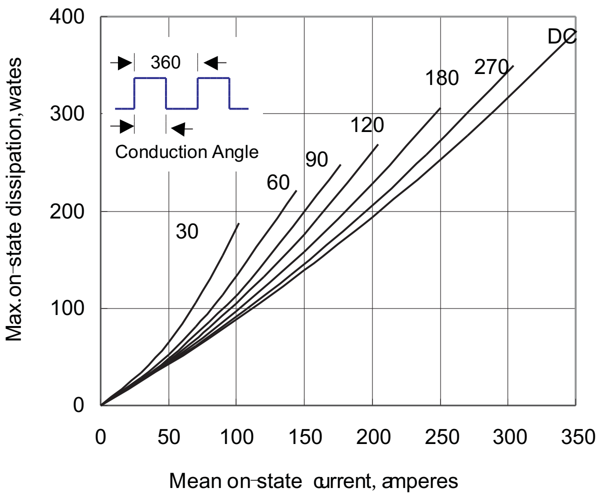


Fig.5

Max. case Temperature Vs.Mean On-state Current

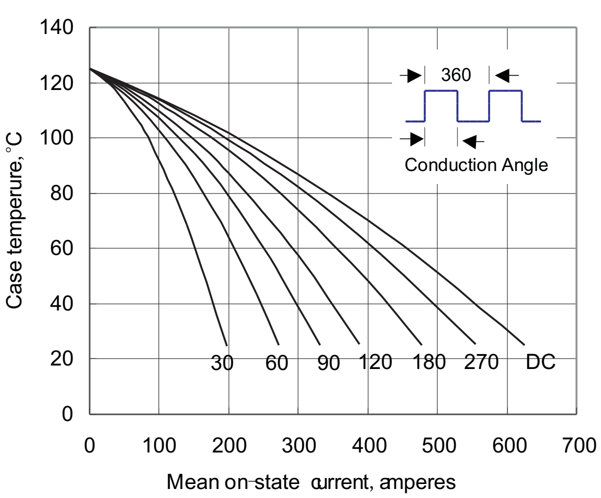


Fig.6

Rating and Characteristic

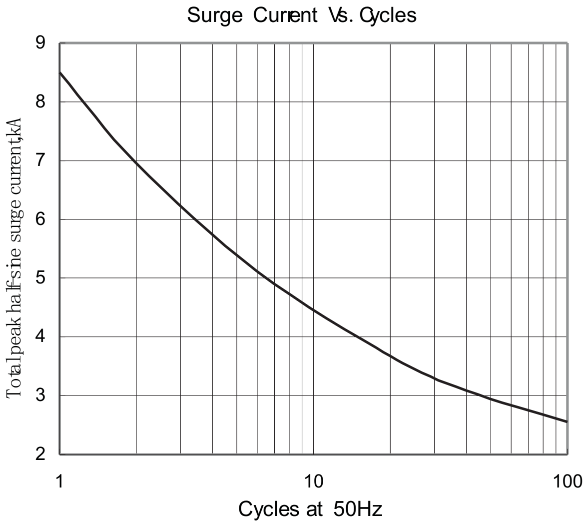


Fig. 7

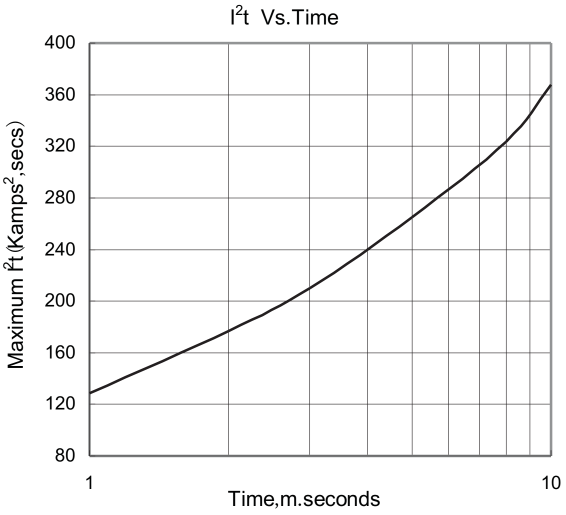


Fig. 8

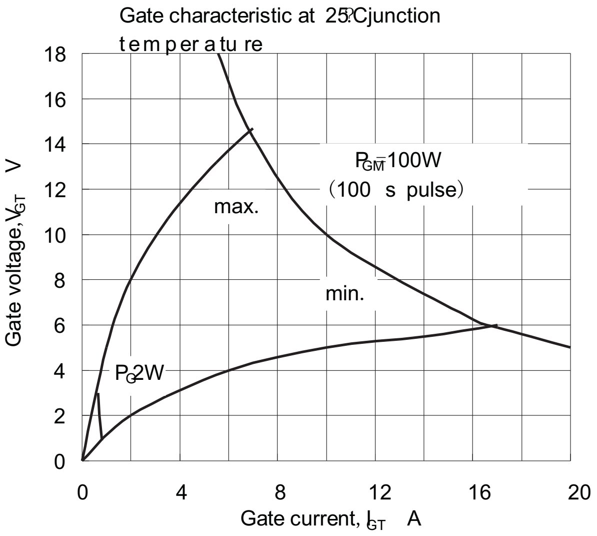


Fig. 9

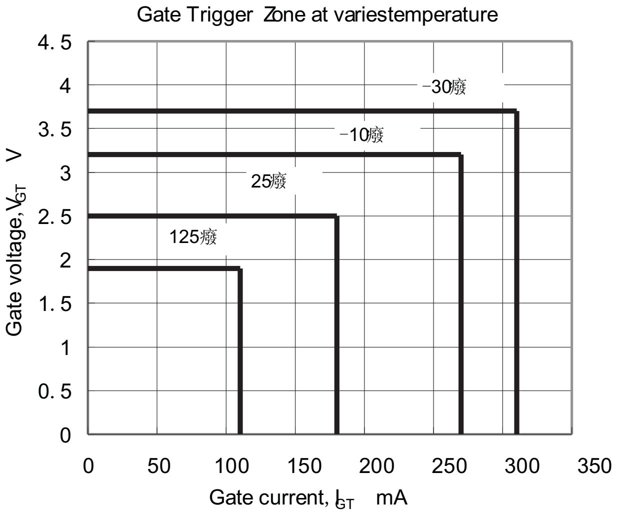


Fig. 10

Outside Dimension