



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

产品规格书

Specification of Products

产品名称：平板型

产品型号：KP3500A

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

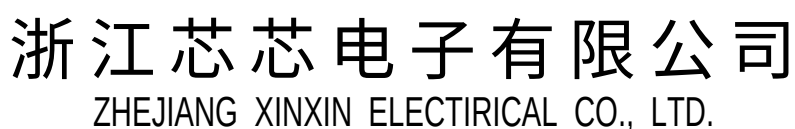
邮编：321404

E-mail:247145749@qq.com

<http://www.zjxxdz1.com>

拟制	审核	核准
丁国盛	李园利	麻伟阳

版本号：04 更新日期：2022.6.28



- Center amplifying gate
- Metal case with ceramic insulator
- Low on-state and switching losses

- AC controllers
- DC and AC motor control
- Controlled rectifiers

$I_{T(AV)}$	3700 A
V_{DRM}/V_{RRM}	400-1000V
I_{TSM}	60 kA
I_t^2	18000 $10^3 A^2 S$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _j (°C)	VALUE			UNIT
					Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz Double side cooled,	T _C =55°C	125			4370	A
			T _C =70°C				3700	
I_{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} +100V		125	400		1000	V
I_{DRM} I_{RRM}	Repetitive peak current	$V_{DM}= V_{DRM}$ $V_{RM}= V_{RRM}$		125			200	mA
I_{TSM}	Surge on-state current	10ms half sine wave		125			60	kA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$					18000	A ² s*10 ³
V_{TO}	Threshold voltage			125			0.85	V
r_T	On-state slop resistance						0.07	mΩ
V_{TM}	Peak on-state voltage	$I_{TM}=3000A$, F=40kN		125			1.06	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$		125			1000	V/μs
di/dt	Critical rate of rise of on-state current	$V_{DM}= 67\%V_{DRM}$ to 4000A, Gate pulse $t_r \leq 0.5\mu s$ $I_{GM}=1.5A$		125			250	A/μs
Q_{rr}	Recovery charge	$I_{TM}=2000A$,tp=2000μs, di/dt=-20A/μs, $V_R =50V$		125		2400		μC
I_{GT}	Gate trigger current	$V_A=12V$, $I_A=1A$		25	40		300	mA
V_{GT}	Gate trigger voltage				0.8		3.0	V
I_H	Holding current				20		300	mA
V_{GD}	Non-trigger gate voltage	$V_{DM}=67\%V_{DRM}$		125	0.3			V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40.0kN					0.010	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink						0.003	
F_m	Mounting force				35		47	kN
T_{stg}	Stored temperature				-40		140	°C
W_t	Weight					1100		g
Outline	KT73cT							

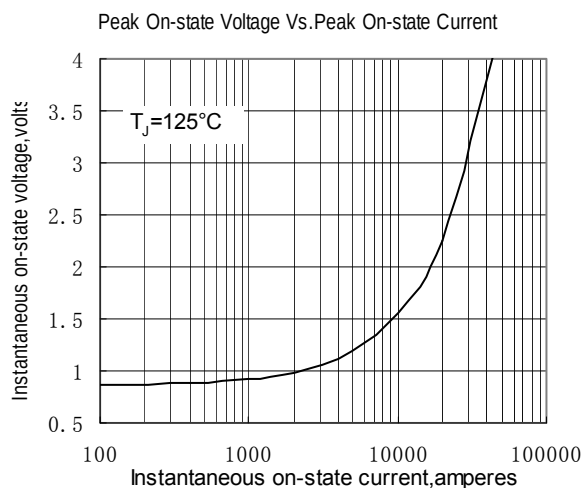


Fig.1

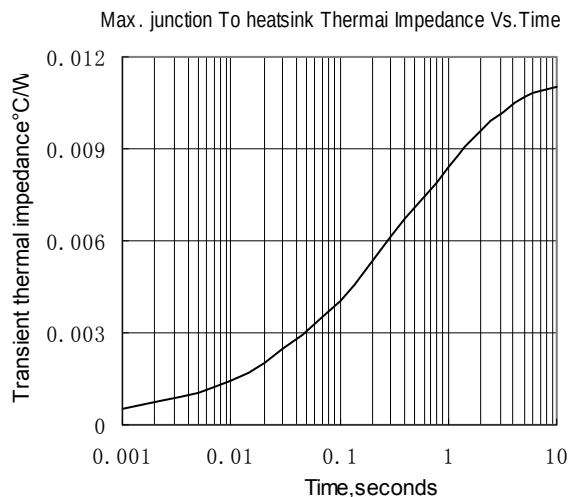


Fig.2

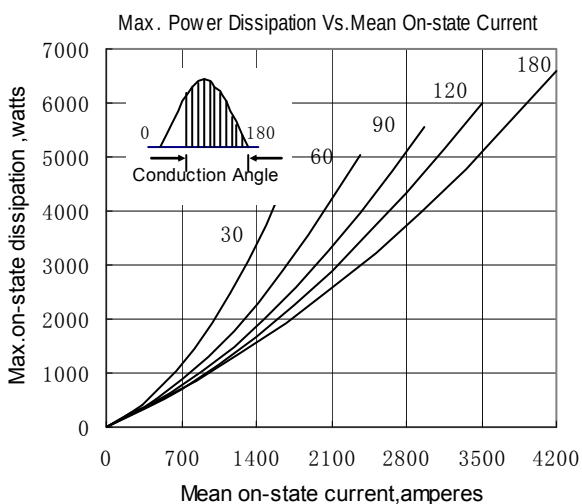


Fig.3

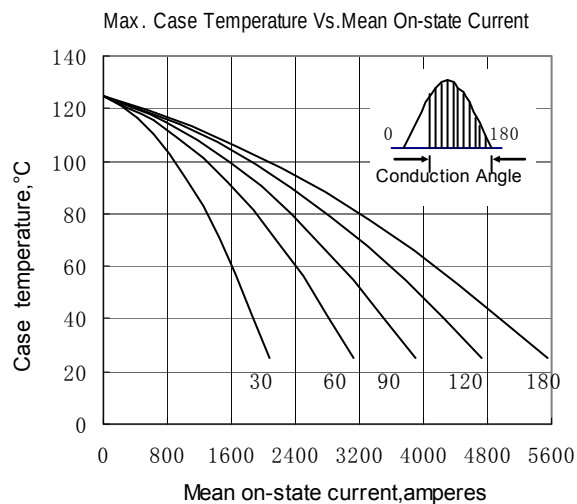


Fig.4

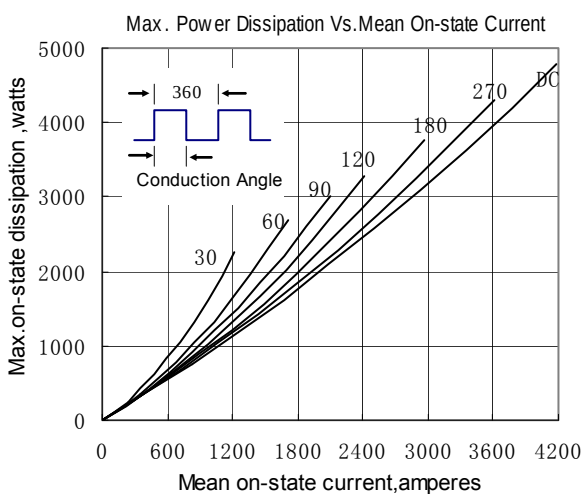


Fig.5

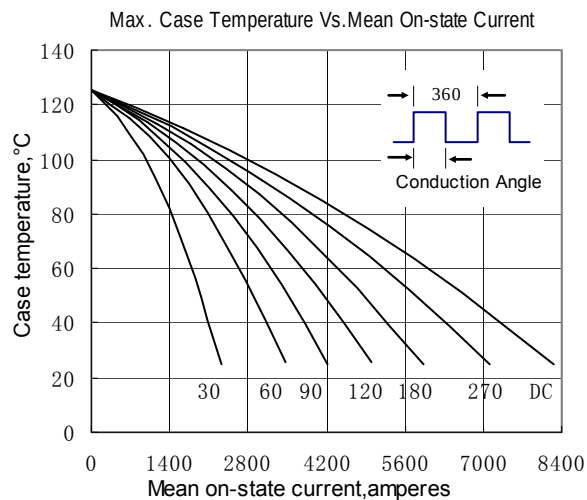


Fig.6

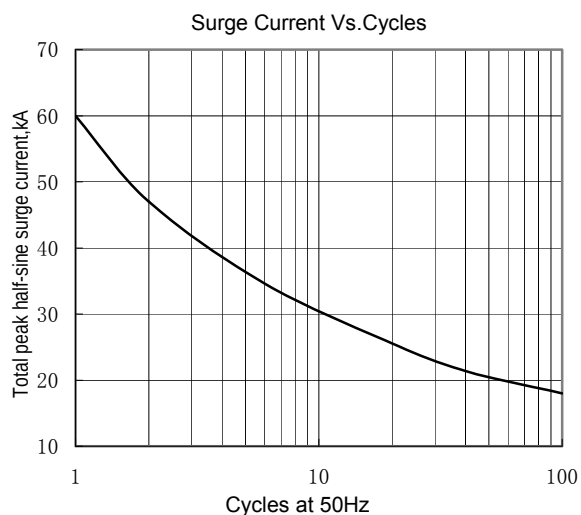


Fig.7

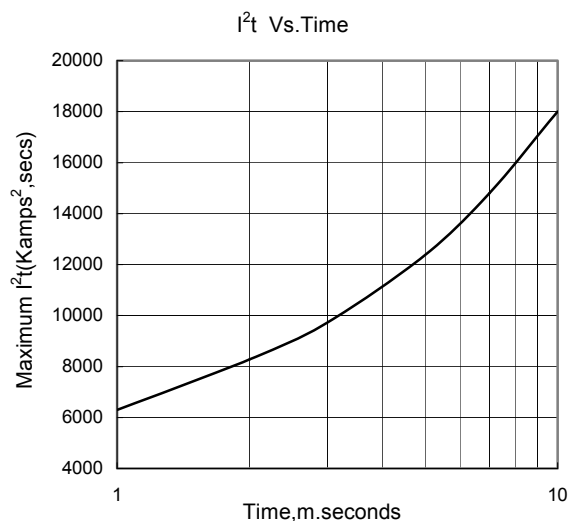


Fig.8

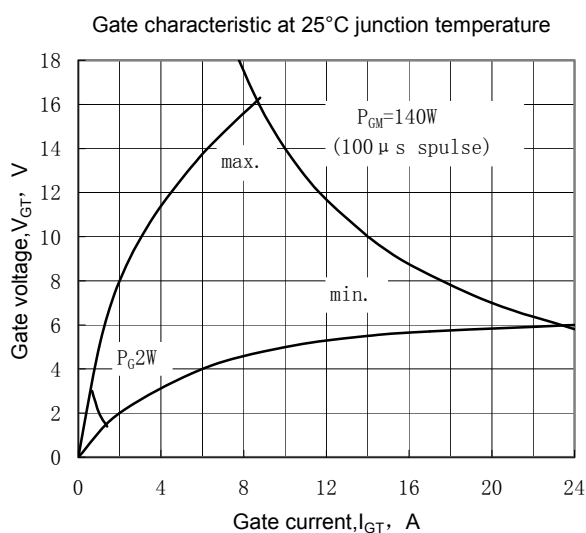


Fig.9

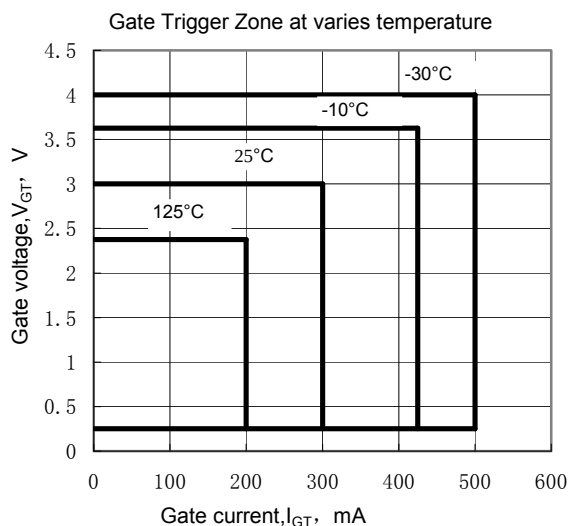


Fig.10

Outline:

