



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：KK3000A

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

Features

- Interdigitated amplifying gates
- Fast turn-on and high di/dt
- Low switching losses

Typical Applications

- Inductive heating
- Electronic welders
- Self-commutated inverters

$I_{T(AV)}$	3800A
V_{DRM}/V_{RRM}	1900~2500V
t_q	40~110 μ s
I_{TSM}	44 kA
I^2t	9680 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 T _C =85°C	125			3800 2580	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} +100V		125	1900		2500	V
I _{DRM} I _{RRM}	Repetitive peak current	V _D = V _{DRM} V _R = V _{RRM}		125			250	mA
I _{TSM}	Surge on-state current	10ms half sine wave		125			44	kA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}					9680	A ² s*10 ³
V _{TO}	Threshold voltage			125			1.32	V
r _T	On-state slop resistance						0.14	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =5000A, F=70kN		125			2.02	V
dv/dt	Critical rate of rise of off-state voltage	V _{DM} =0.67V _{DRM}		125			500	V/μs
di/dt	Critical rate of rise of on-state current	V _{DM} = 67%V _{DRM} ,to4000A Gate pulse t _r ≤0.5μs I _{GM} =1.5A		125			1200	A/μs
Q _{rr}	Recovery charge	I _{TM} =2000A,tp=2000μs, di/dt=-60A/μs,V _R =50V		125		2100		μC
tq	Circuit commutated turn-off time	I _{TM} =2000A,tp=1000μs, V _R =50V dv/dt=30V/μs ,di/dt=-20A/μs		125	40		110	μs
I _{GT}	Gate trigger current	V _A =12V, I _A =1A		25	40		450	mA
V _{GT}	Gate trigger voltage				0.9		4.5	V
I _H	Holding current				20		1000	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 70 kN					0.007	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink						0.002	
F _m	Mounting force				63		84	kN
T _{stg}	Stored temperature				-40		140	°C
W _t	Weight					1390		g
Outline	KT84cT							

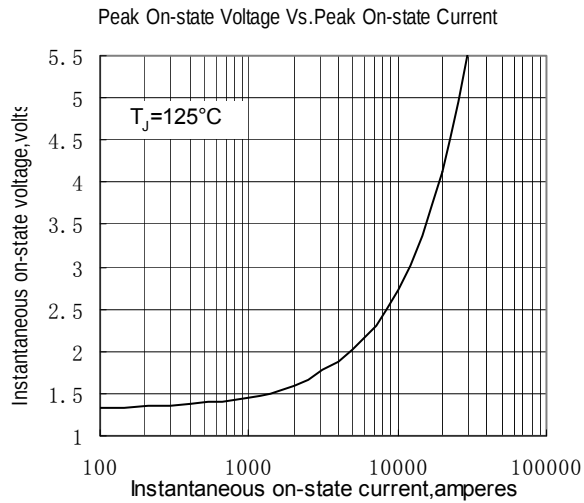


Fig.1

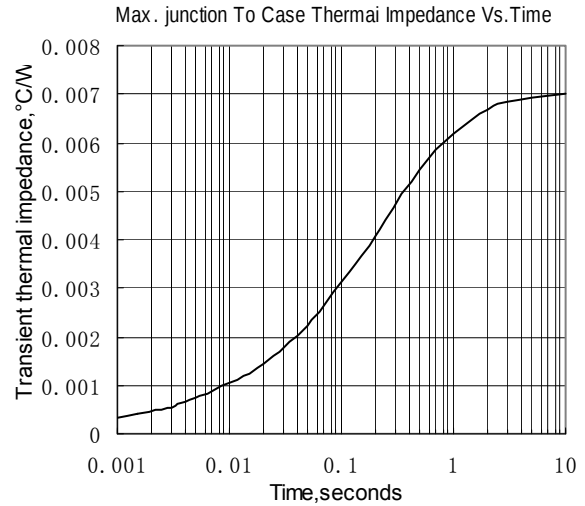


Fig.2

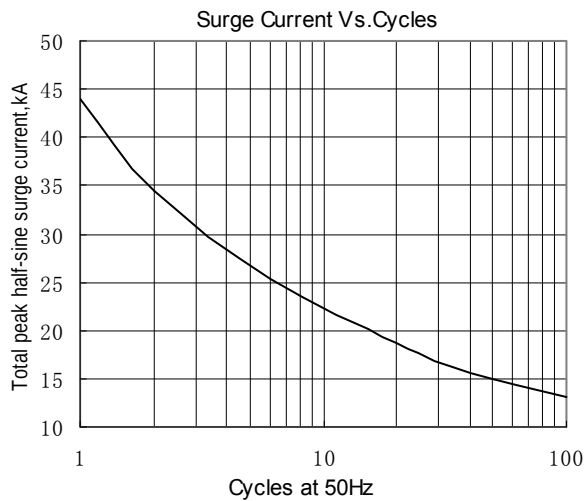


Fig.3

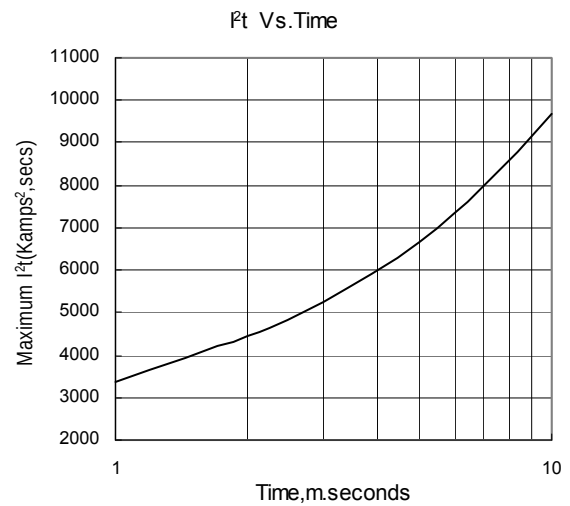


Fig.4

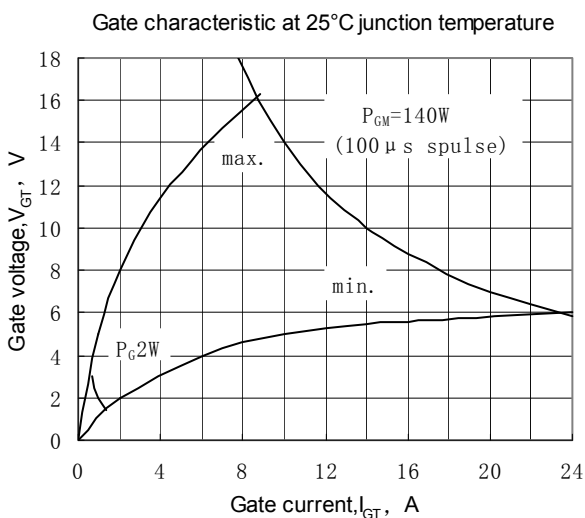


Fig.5

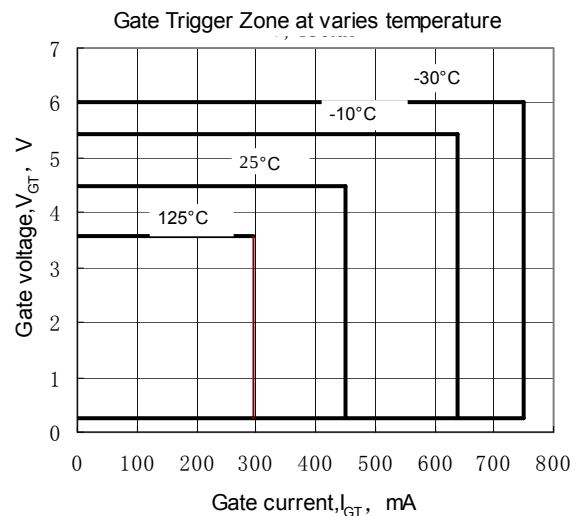


Fig.6

Outline:

