



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：KK4000A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTIRICAL CO., LTD.

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拟制	审核	核准
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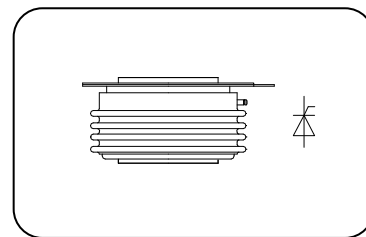
Features

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

Typical Applications

- Inductive heating
- Electronic welders
- Self-commutated inverters

$I_{T(AV)}$	4890A
V_{DRM}/V_{RRM}	1900~3000V
t_q	40~120 μ s
I_{TSM}	62 kA
I_t^2	19220 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			4890	A
			T _C =85°C				3370	
			old model				4000	
V _{DRM} V _{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	V _{DRM} &V _{RRM} , tp=10ms V _D SM&V _R SM= V _{DRM} &V _{RRM} *100V		125	1900		3000	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			62	kA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}					19220	A ² s*10 ³
V _{TO}	Threshold voltage			125			1.30	V
r _T	On-state slop resistance						0.13	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =5000A, F=90kN		125			1.95	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		2400		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		120	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 90 kN					0.005	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink						0.0015	
F _m	Mounting force				81		108	kN
T _{stg}	Stored temperature				-40		140	°C
W _t	Weight					2000		g
Outline	KT100cT							

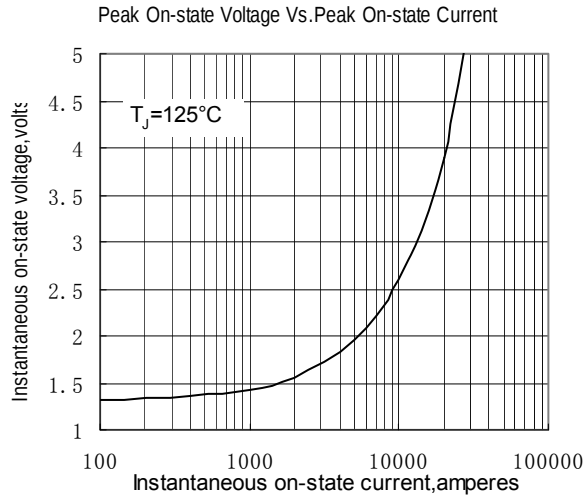


Fig.1

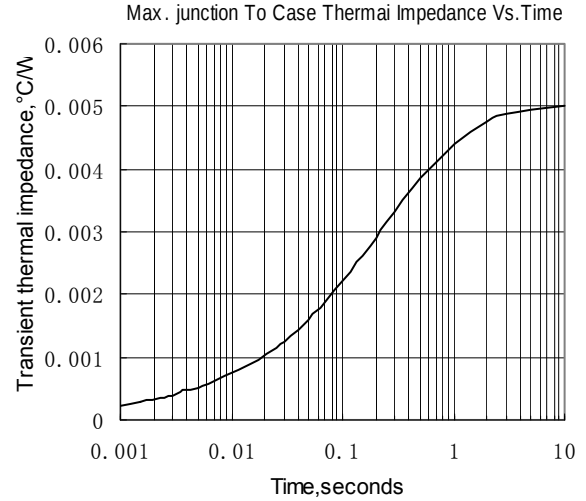


Fig.2

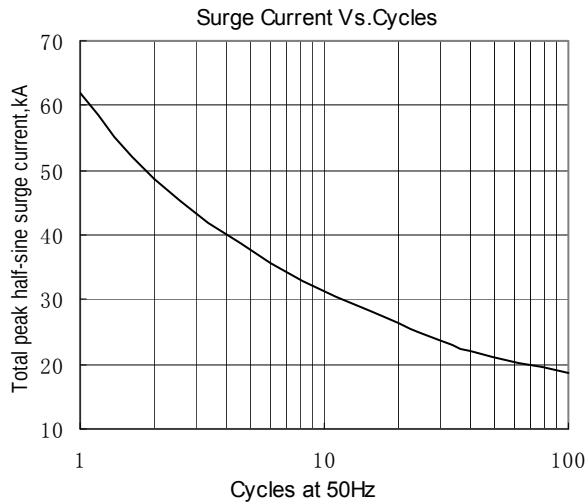


Fig.3

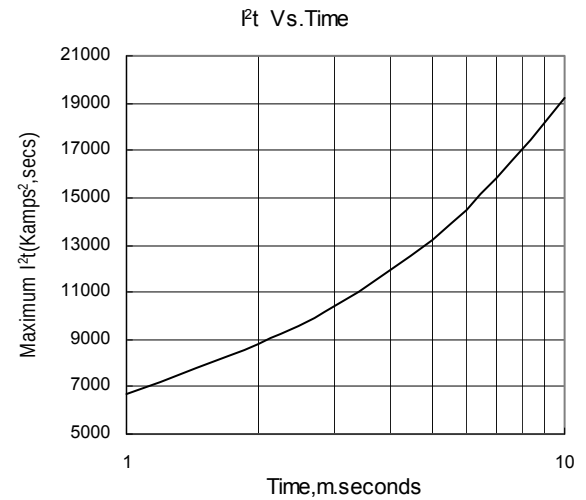


Fig.4

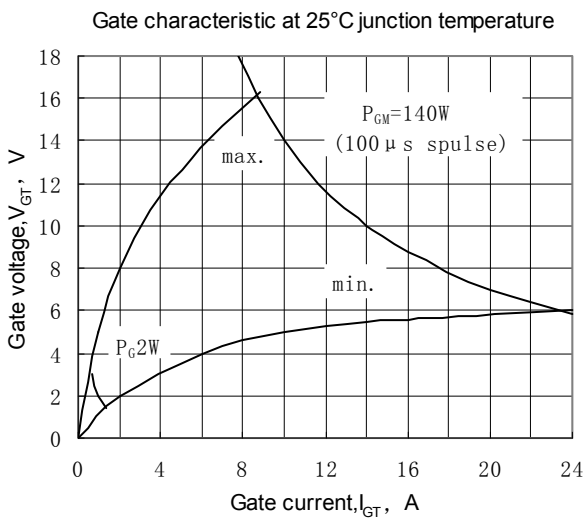


Fig.5

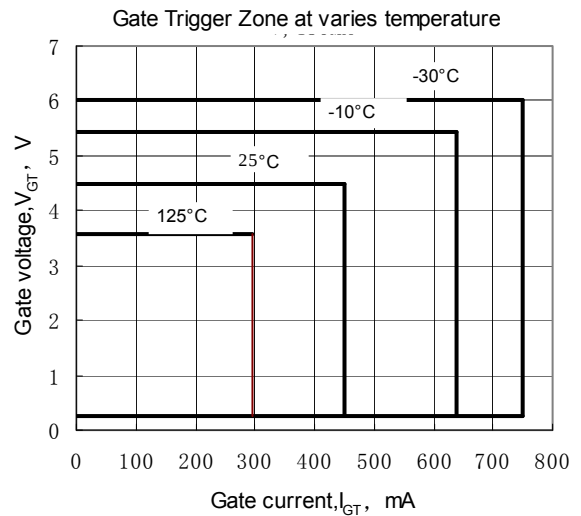


Fig.6

Outline:

