震扬®

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：KK800A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTIRICAL CO., LTD.

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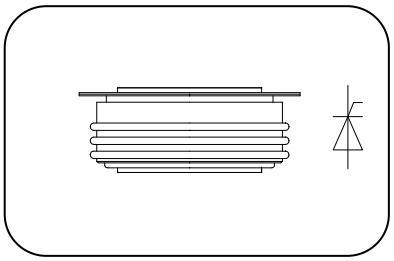
Features

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

Typical Applications

- Inductive heating
- Electronic welders
- Self-commutated inverters

$I_{T(AV)}$	**1220A**
V_{DRM}/V_{RRM}	**800~1800V**
t_q	**18~50μs**
I_{TSM}	**12 kA**
I^2t	**720 10^3A^2S**



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			1220	A
			T_C=85°C				820	
			old model				800	
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	800		1800	V
I_{DRM} I_{RRM}	Repetitive peak current	V_D= V_{DRM} V_R= V_{RRM}		125			60	mA
I_{TSM}	Surge on-state current	10ms half sine wave V_R=0.6V_{RRM}		125			12	kA
I^2t	I^2T for fusing coordination						720	A^2s*10^3
V_{TO}	Threshold voltage			125			1.32	V
r_T	On-state slop resistance						0.36	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=2400A, F=21kN		125			2.18	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} to 1600A, Gate pulse t_r ≤0.5μs I_{GM}=1.5A		125			1200	A/μs
Q_{rr}	Recovery charge	I_{TM}=1000A,tp=2000μs, di/dt=-60A/μs,V_R=50V		125		650		μC
tq	Circuit commutated turn-off time	I_{TM}=1000A,tp=1000μs, V_R =50V dv/dt=30V/μs ,di/dt=-20A/μs		125	18		50	μs
I_{GT}	Gate trigger current	V_A=12V, I_A=1A		25	40		250	mA
V_{GT}	Gate trigger voltage				0.9		2.5	V
I_H	Holding current				20		400	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 180^0 sine double side cooled Clamping force 21kN					0.024	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.006	
F_m	Mounting force				18		25	kN
T_{stg}	Stored temperature				-40		140	°C
W_t	Weight					380		g
Outline	KT44cT							

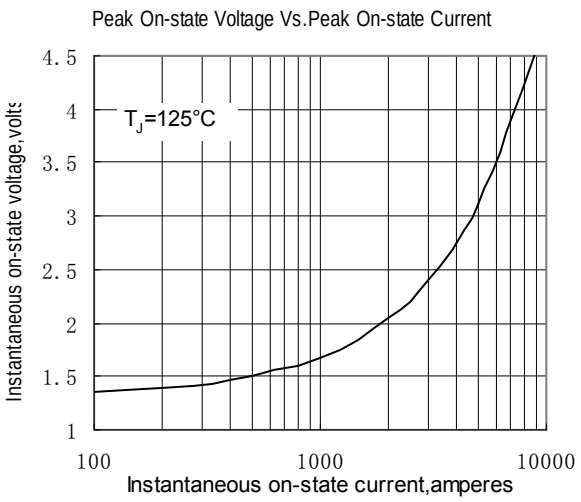


Fig.1

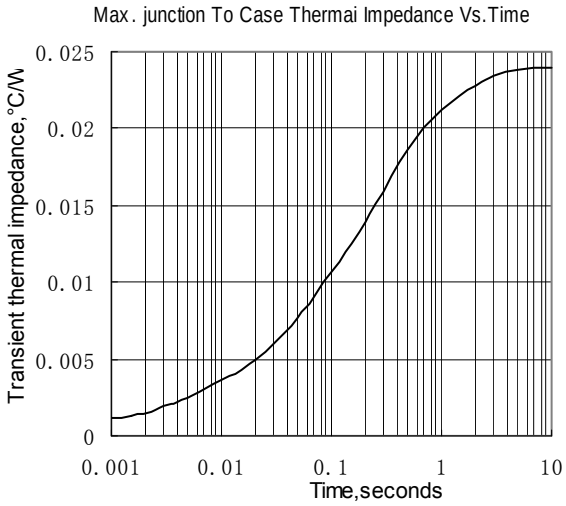


Fig.2

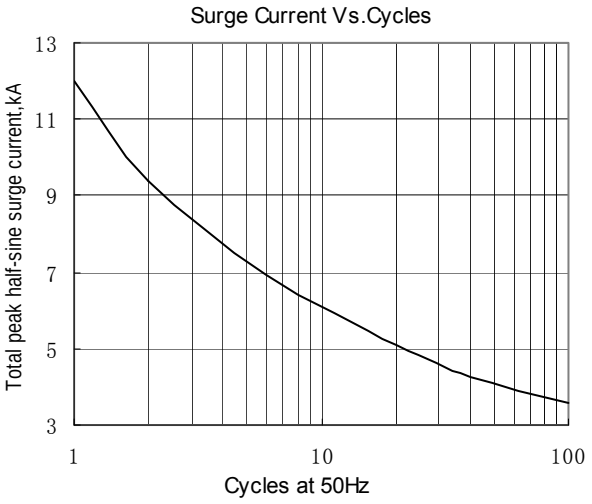


Fig.3

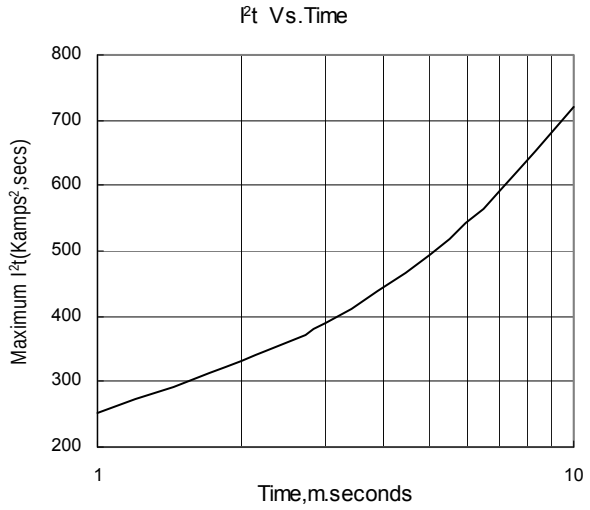


Fig.4

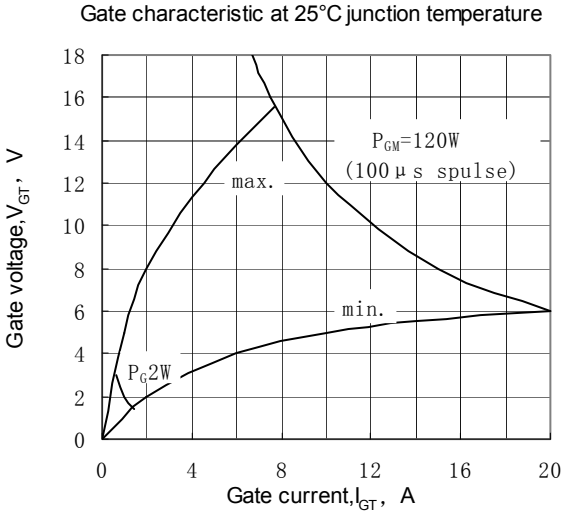


Fig.5

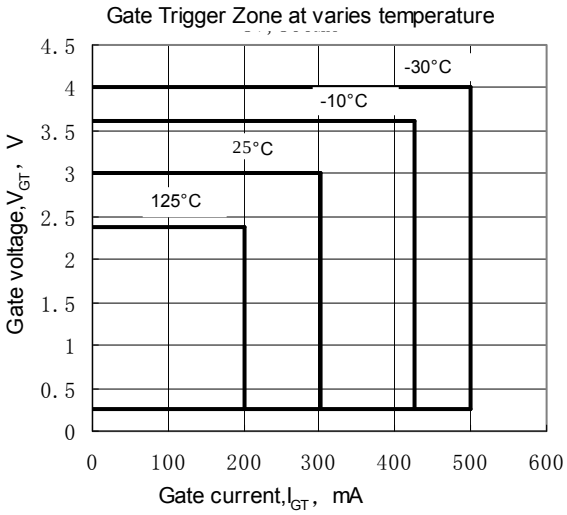


Fig.6

Outline: