



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：螺栓型晶闸管

产品型号：KP100A

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (C)	VALUE			UNIT
				Min	Type	Max	
I _{T(AV)}	Mean on-state current	180 half sinewave 50Hz single side cooled, T _S =55 C	125			168	A
I _{T(AV)}	Mean on-state current	180 half sinewave 50Hz single side cooled, T _S =80 C	125			100	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 respectively	125	100		2000	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	125			1.9	KA
I ² T I	² T for fusing coordination	V _R =0.6V _{RRM}				18 A	² s*10 ³
V _{TO}	Threshold voltage		125			1.36	V
r _T	On-state slop resistance					1.28	mΩ
V _{TM}	Peak on-state voltage	T _M =300A	125			2.0	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	From 67%V _{DRM} to 1000A, Gate source 1.5A t _r ≤0.5μs Repetitive	125			100	A/μs
I _{rm}	Reverse recovery current	I _{TM} =500A, tp=1000 s, di/dt=-20A/s, V _r =50V	125			90	A
t _{rr}	Reverse recovery time					8	s
Q _{rr}	Recovery charge					360	C
I _{GT}	Gate trigger current	V _A =12 V, I _A =1A	25	10		200	mA
V _{GT}	Gate trigger voltage			0.8		2.7	V
I _H	Holding current			10		200	mA
V _{GD}	Non-trigger gate voltage	At 67%V _{DRM}	125			0.3	V
R _{th(j-h)}	Thermal resistance Junction to heatsink	At 180° sine single side cooled Clamping torque 17 Nm				0.200	C /W
F _m	Mounting torque			13		19	N m
T _{stg}	Stored temperature			-40		140	C
Outline	T2						

Outline

