

## 产品规格书

### Specification of products

产品名称:螺旋型整流管

产品型号: ZP70A

浙江世菱半导体有限公司  
ZHEJIANG SHILING SEMICONDUCTOR CO., LTD.

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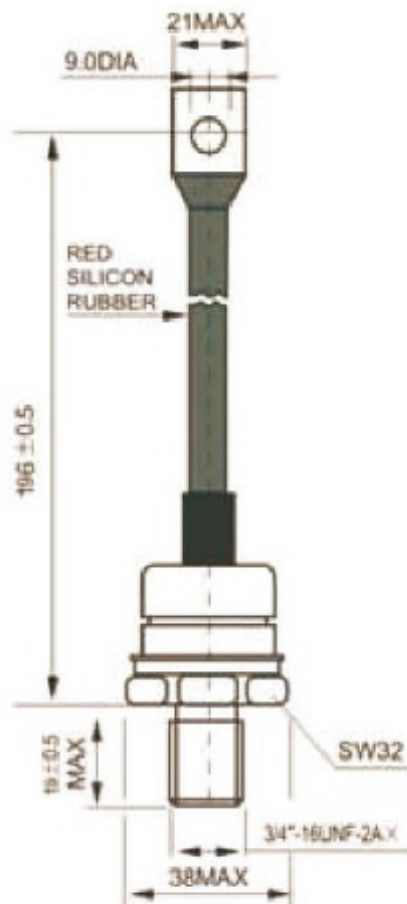
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拟制	审核	核准
林益龙	曹剑龙	宗瑞

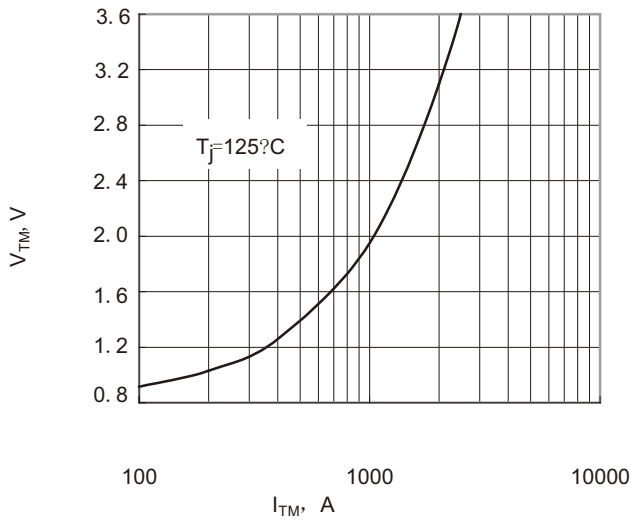
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT	
				Min	Type	Max		
I <sub>F(AV)</sub>	Mean forward current	180° half sinewave 50Hz single side cooled, T <sub>hs</sub> =55° C	150			110	A	
I <sub>F(AV)</sub>	Mean forward current	180° half sinewave 50Hz single side cooled, T <sub>hs</sub> =90° C	150			70	A	
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	150	100		2000	V	
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			10	mA	
I <sub>FSM</sub>	Surge forward current	10ms half sinewave	150			1.64	KA	
I <sup>2</sup> T I	<sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					13.5	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			1.65	V	
r <sub>F</sub>	Forward slop resistance						1.42	mW
V <sub>FM</sub>	Peak on-state voltage	T <sub>M</sub> =300A	150			2.0	V	
I <sub>rm</sub>	Reverse recovery current	I <sub>TM</sub> =300A, tp=1000 μs, di/dt=-20A/μs, V <sub>R</sub> =50V	150			30	A	
t <sub>rr</sub>	Reverse recovery time						4	μs
Q <sub>rr</sub>	Recovery charge						60	μC
R <sub>th(j-h)</sub>	Thermal resistance Junction to heatsink	At 180° sine single side cooled Clamping torque 17 Nm				0.22	°C/W	
F <sub>m</sub>	Mounting torque			13		19	N.m	
T <sub>stg</sub>	Stored temperature			-40		160	°C	
Outline								

Outline

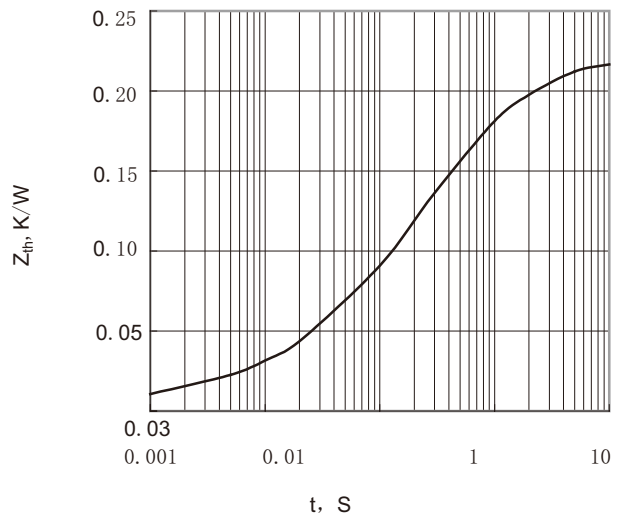


\*FOR METRIC DEVICES:  
M20×1.5/M16×1.5-LENGTH 21 MAX

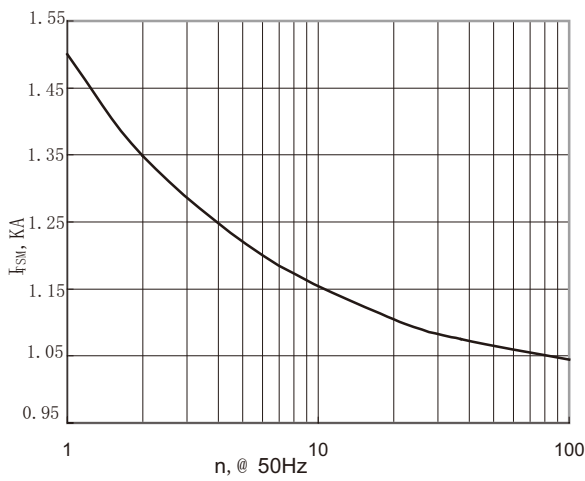
Peak forward Voltage Vs. Peak On-state Current



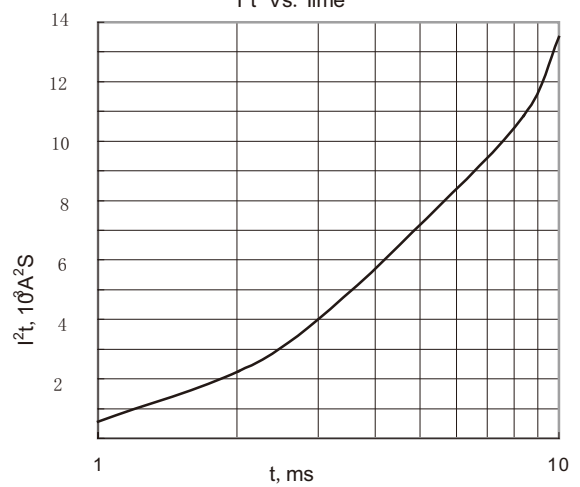
Max. junction To case Thermal Impedance Vs. Time



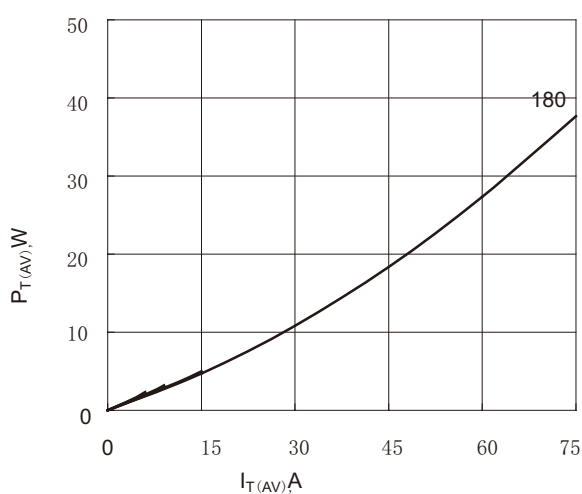
Surge Current Vs. Cycles



$I_t^2$  Vs. Time



Max. Power Dissipation Vs. Mean On-state Current



Max. case Temperature Vs. Mean On-state Current

