

## 产品规格书

### Specifcation of products

产品名称:螺旋型整流管

产品型号:ZP150A

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

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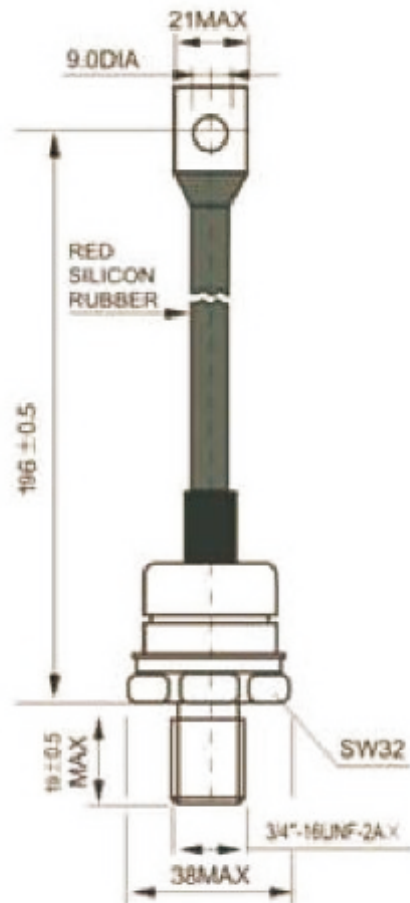
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拟制	审核	核准
林益龙	曹剑龙	宗瑞

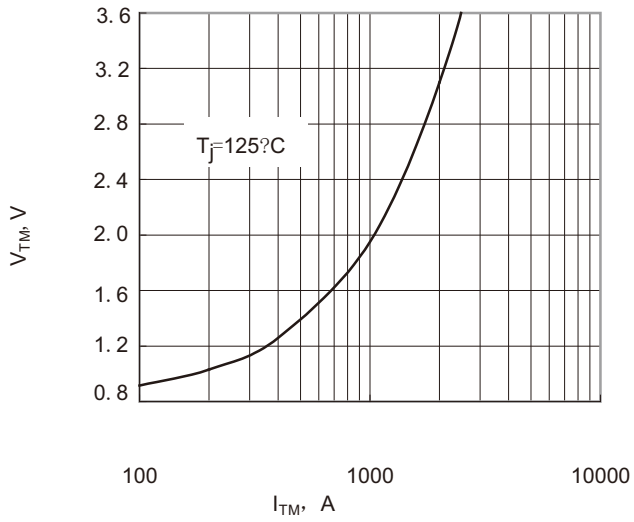
SY M BOL	CH ARACTERIS TIC	TES T CONDI TIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				M in	Type	M ax	
I <sub>F(AV)</sub>	Mean forward current	180° half sinewave 50Hz single side cooled, T <sub>HS</sub> =55° C	150			240	A
I <sub>F(AV)</sub>	Mean forward current	180° half sinewave 50Hz single side cooled, T <sub>HS</sub> =90° C	150			150	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 V <sub>R</sub> =0.6V <sub>RRM</sub>	150			2.7	KA
I <sup>2</sup> T	I <sup>2</sup> T for fusing coordination					35.5	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			1.40	V
r <sub>F</sub>	Forward slop resistance					1.02	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>M</sub> =300A, tp=1000 μs, di/dt=-20A/μs, V <sub>R</sub> =50V	150			50	A
t <sub>rr</sub>	Reverse recovery time					4	μs
Q <sub>rr</sub>	Recovery charge					100	μC
R <sub>th(j-h)</sub>	Thermal resistance Junction to heatsink	At 180° sine single side cooled Clamping torque 17 Nm				0.16	°C/W
F <sub>m</sub>	M ounting torque			13		19	N.m
T <sub>stg</sub>	Stored temperature			-40		160	° C
Outline							

Outline

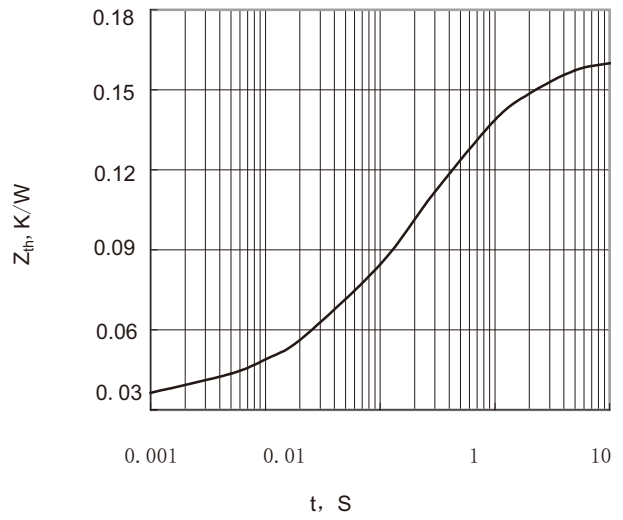


\*FOR METRIC DEVICES:  
M20×1.5/M16×1.5-LENGTH 21 MAX

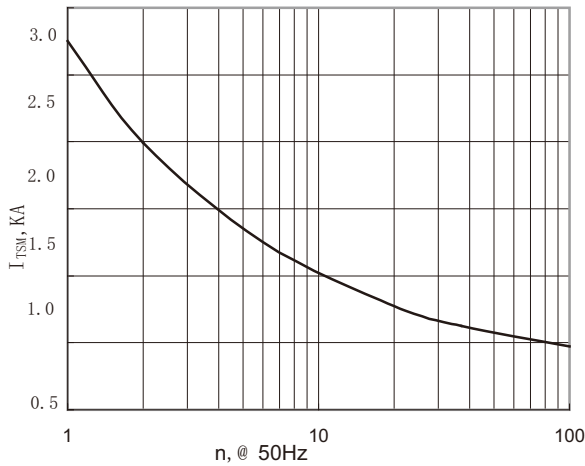
Peak forward Voltage Vs. Peak On-state Current



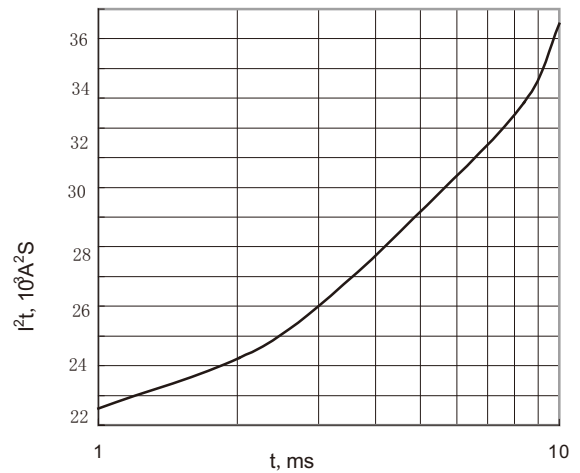
Max. junction To case Thermal Impedance Vs. Time



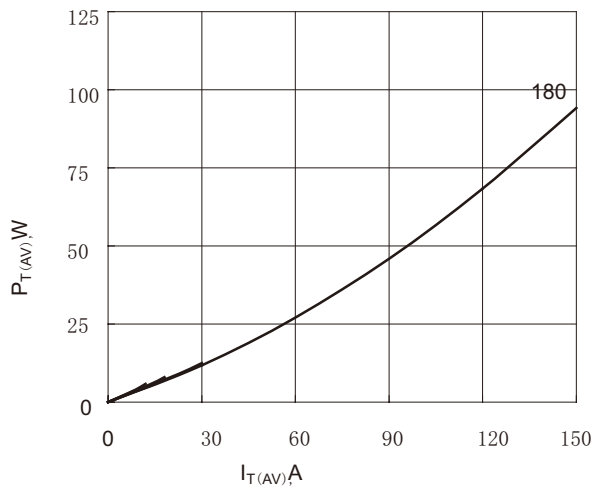
Surge Current Vs. Cycles



$I^2t$  Vs Time



Max. Power Dissipation Vs. Mean On-state Current



Max. case Temperature Vs. Mean On-state Current

