

## 产品规格书

### Specification of products

产品名称:螺旋型整流管

产品型号:ZP100A

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

地址:浙江省 丽水市 莲都区

电话:(0578) 3012571 3615078

传真:(0578) 3611180

邮编: 323000

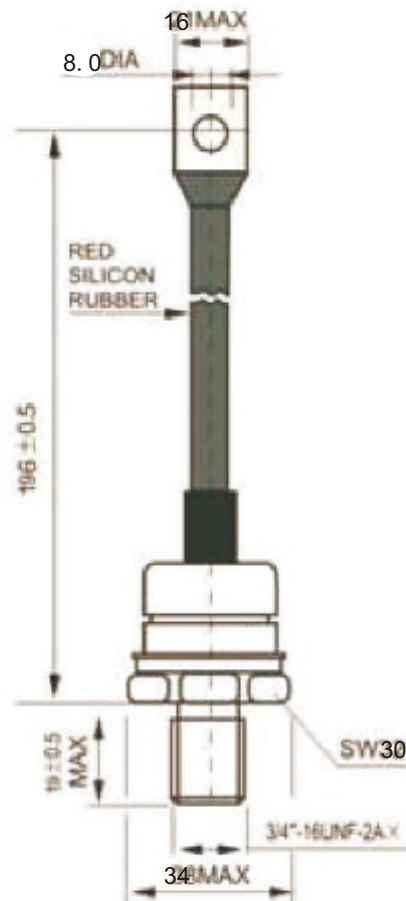
E-mail:smrshiling01@163.com

Http://www.smrshiling.com

拟制	审核	核准
林益龙	曹剑龙	宗瑞

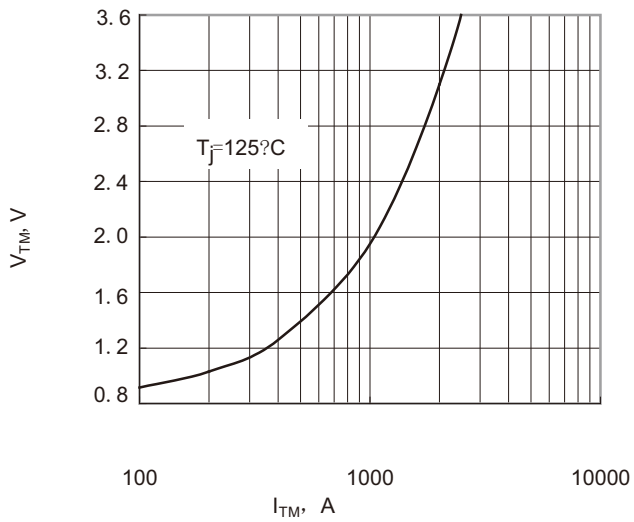
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz single side cooled, T <sub>HS</sub> =55°C	150			177	A
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz single side cooled, T <sub>HS</sub> =90°C	150			100	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 sine wave V <sub>R</sub> =0.6V <sub>RRM</sub>	150			2.2	KA
I <sup>2</sup> T	I <sup>2</sup> T for fusing coordination					24	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			1.56	V
r <sub>F</sub>	Forward slop resistance					1.34	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			40	A
t <sub>rr</sub>	Reverse recovery time					4	μs
Q <sub>rr</sub>	Recovery charge					80	μC
R <sub>th(j-h)</sub>	Thermal resistance Junction to heatsink	At 180° sine single side cooled Clamping torque 17 Nm				0.19	°C /W
F <sub>m</sub>	Mounting torque			13		19	N.m
T <sub>stg</sub>	Stored temperature			-40		160	°C
Outline							

### Outline

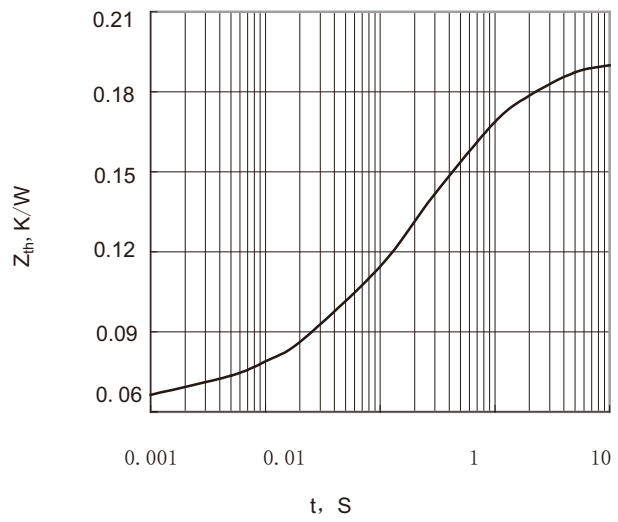


\*FOR METRIC DEVICES:  
M20×1.5/M16×1.5-LENGTH21 MAX

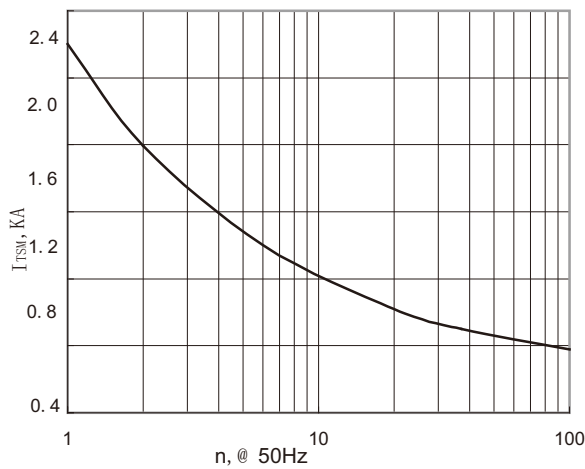
Peak forward Voltage Vs. Peak On-state Current



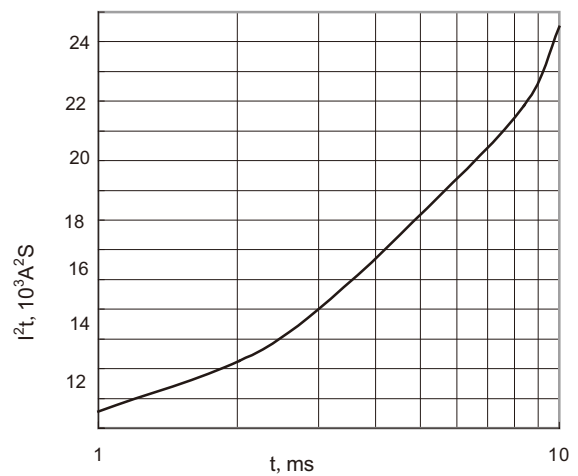
Max. junction To case Thermal Impedance Vs. Time



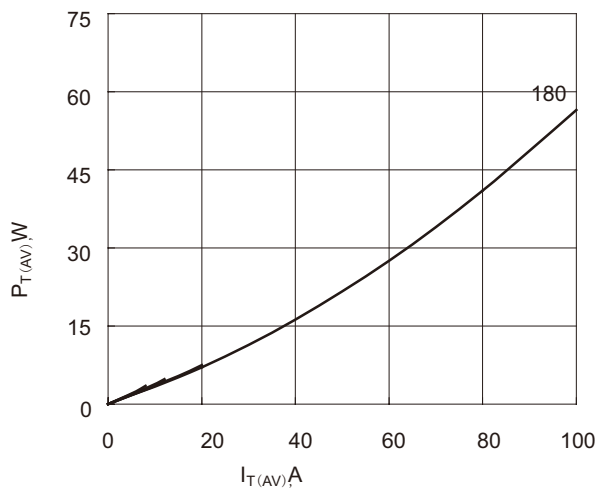
Surge Current Vs. Cycles



$I^2t$  Vs Time



Max. Power Dissipation Vs. Mean On-state Current



Max. case Temperature Vs. Mean On-state Current

