

产品规格书

Specifcation of products

产品名称:螺旋型整流管

产品型号:ZP300A

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

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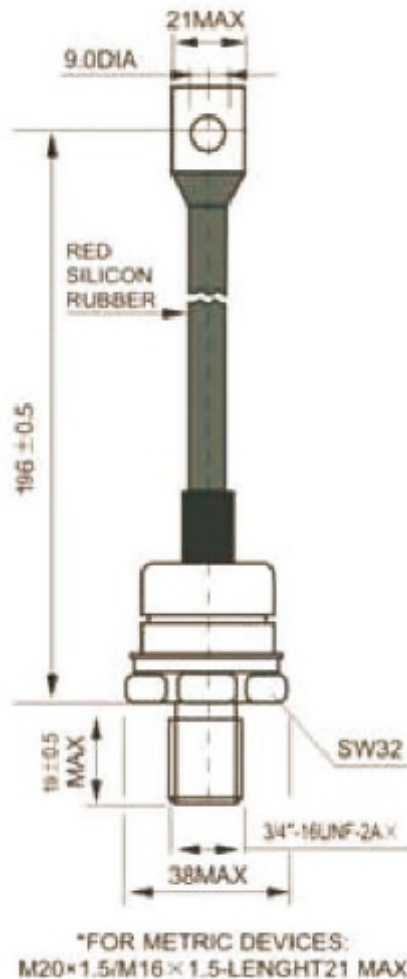
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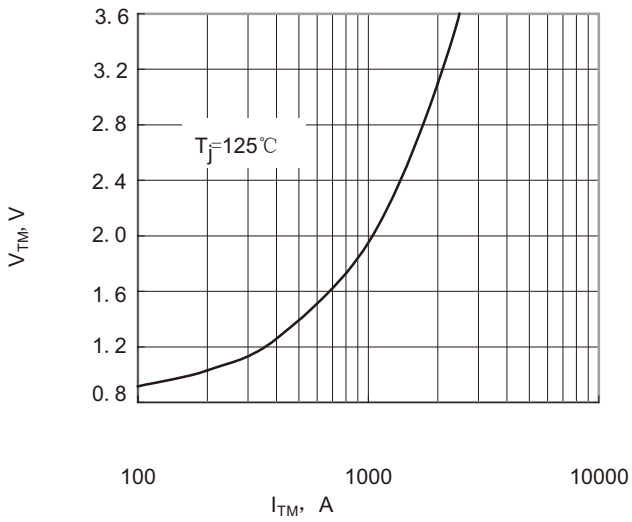
拟制	审核	核准
林益龙	曹剑龙	宗瑞

SY M BOL	CH ARACTERIS TIC	TES T CONDI TIONS	T _j (°C)	VALUE			UNIT	
				M in	Type	M ax		
I _{F(AV)}	M ean forward current	180° half sinewave 50Hz single side cooled, T _{HS} =55° C	150			445	A	
I _{F(AV)}	M ean forward current	180° half sinewave 50Hz single side cooled, T _{HS} =90° C	150			300	A	
V _{RRM}	Repetitivepeak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	100		2000	V	
I _{RRM}	Repetitivepeak current	at V _{RRM}	150			10	mA	
I _{FSM}	Surge forward current	10ms half sinewave	150			4	KA	
I ² T	I ² T for fusing coordination	V _R =0.6V _{RRM}					80	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.98	V	
r _F	Forward slop resistance						0.88	mW
V _{FM}	Peak on-state voltage	I _M =900A	150			2.0	V	
I _M	Reverse recovery current	I _M =300A, tp=1000 μs, di/dt=-20A/μs, V _R =50V	150			60	A	
t _{rr}	Reverse recovery time						4.0	μs
Q _{rr}	Recovery charge						120	μC
R _{th(j-h)}	Thermal resistance Junction to heatsink	At 180° sine single side cooled Clamping torque 27 Nm				0.11	°C/W	
F _m	M ounting torque			25		30	N.m	
T _{stg}	Stored temperature			-40		160	° C	
Outline								

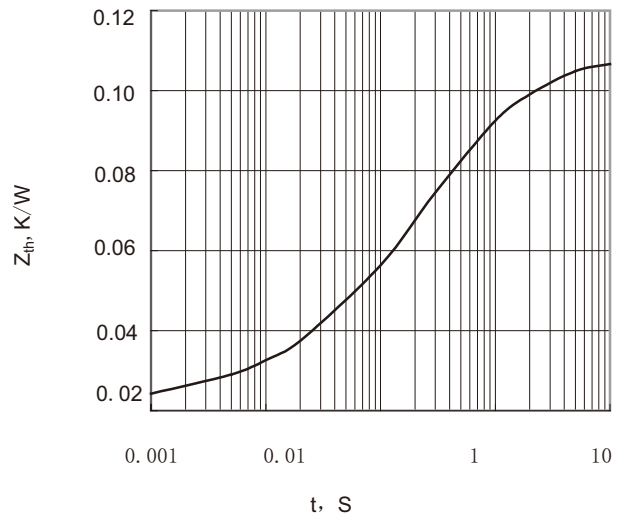
Outline



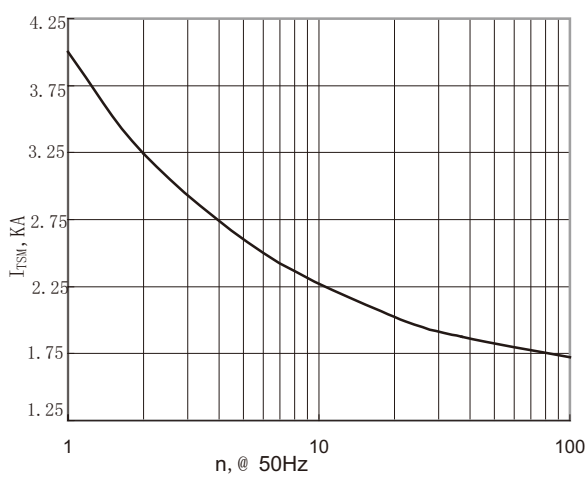
Peak forward Voltage Vs. Peak On-state Current



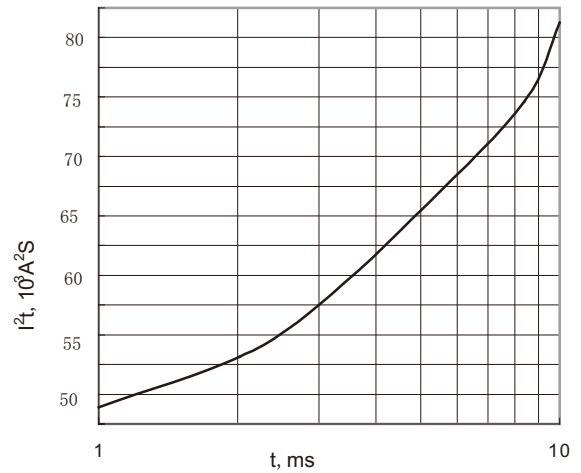
Max. junction To case Thermal Impedance Vs. Time



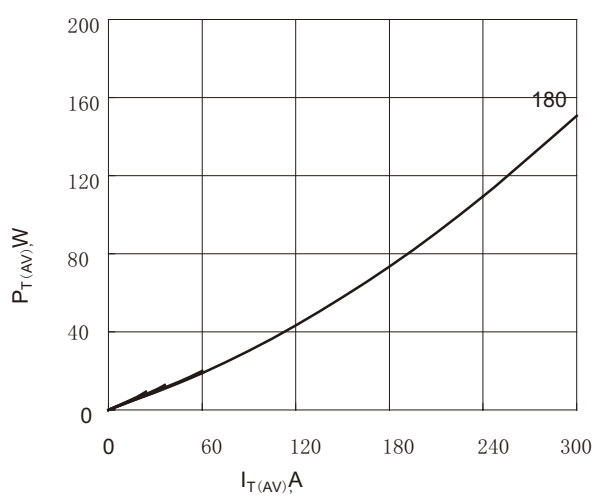
Surge Current Vs. Cycles



I^2t Vs Time



Max. Power Dissipation Vs. Mean On-state Current



Max. case Temperature Vs. Mean On-state Current

