

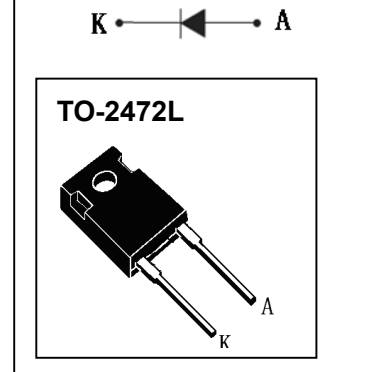


# 30F120WT

## 主要参数 MAIN CHARACTERISTICS

IF(AV)	30A
VR(V)	1200 V
Tj(max)	175°C
VF(typ)	2.7V
trr (max)	45ns

## 封装 Package



## 用途

- 吸收回路
- 开关电源
- UPS
- 高频开关器件并联二极管

## APPLICATIONS

- Snubber diode
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

## 产品特性

- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

## FEATURES

- Low power loss, high efficiency
- High reliability
- RoHS product

## 订货信息 ORDER MESSAGE

订货型号 Order codes				印记 Marking	封装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
30F120WT -GE-B	30F120WT -GE-BR	N/A	N/A	30F120WT	TO-2472L





## 绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Max Repetitive peak reverse voltage	V <sub>RRM</sub>	1200	V
正向平均整流电流 Average forward current	I <sub>F(AV)</sub>	30	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) t=8.3ms	I <sub>FSM</sub>	250	A
雪崩耐量 Avalanche Energy (1A, 40mH)	E <sub>AVL</sub>	20	mJ
结温 Junction Temperature	T <sub>j</sub>	-55~+175	°C
储存温度 Storage temperature range	T <sub>STG</sub>	-55~+175	°C

## 电特性 ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V <sub>RRM</sub>	I <sub>R</sub> = 50μA	1200			V
I <sub>R</sub>	T <sub>j</sub> = 25°C			100	A
	T <sub>j</sub> = 125°C			500	μA
V <sub>F</sub>	T <sub>j</sub> = 25°C		3.0	3.4	
	T <sub>j</sub> = 125°C		2.4	2.9	V
t <sub>rr</sub>	I <sub>F</sub> = 1A, V <sub>R</sub> = 30V, di <sub>F</sub> /dt = -100A/μs T <sub>j</sub> = 25°C			45	ns
t <sub>rr</sub>	I <sub>F</sub> = 30A, V <sub>R</sub> = 200V, di <sub>F</sub> /dt = -200A/μs		43		ns
Q <sub>rr</sub>	T <sub>j</sub> = 25°C		79		nc
I <sub>RRM</sub>			3.3		A
t <sub>rr</sub>	I <sub>F</sub> = 30A, V <sub>R</sub> = 200V, di <sub>F</sub> /dt = -200A/μs		207		ns
Q <sub>rr</sub>	T <sub>j</sub> = 125°C		583		nc
I <sub>RRM</sub>			6.2		A

## 热特性 THERMAL CHARACTERISTICS

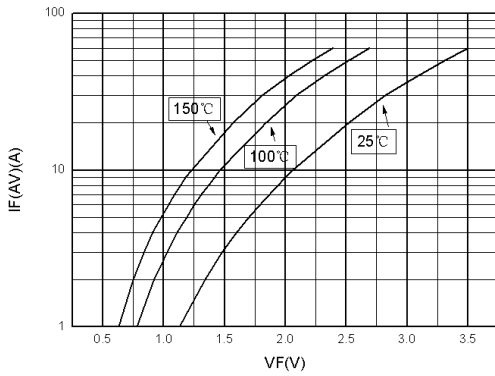
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	R <sub>th(j-c)</sub>		0.55	°C/W



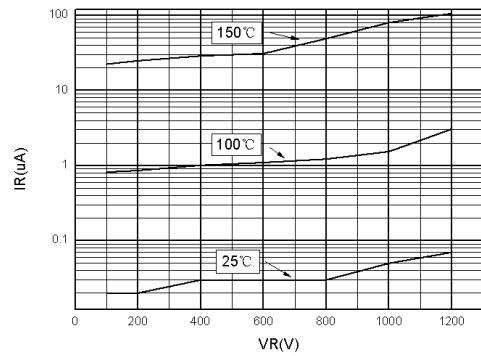


### 特征曲线 ELECTRICAL CHARACTERISTICS (curves)

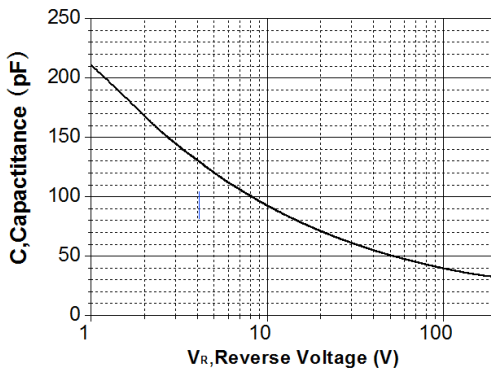
IF vs VF



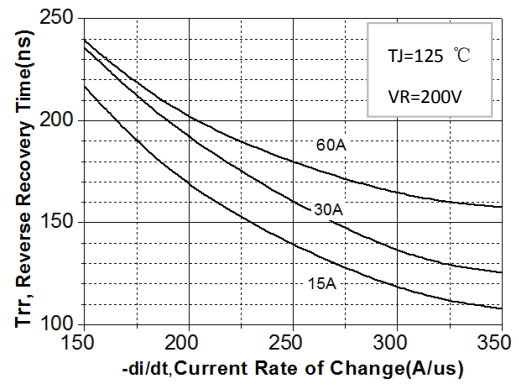
IR vs VR



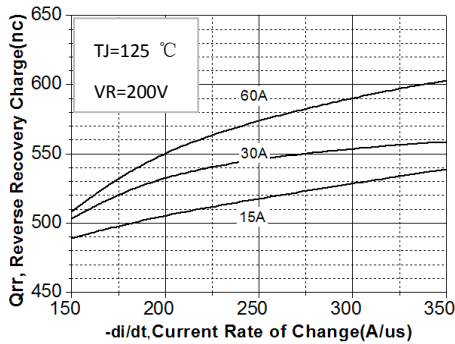
CT vs VR



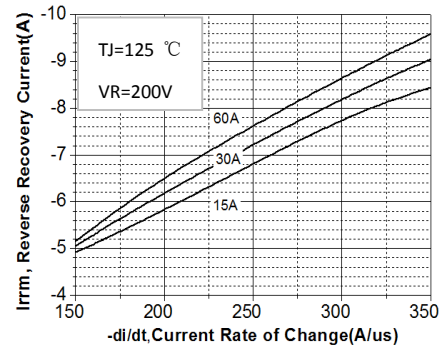
trr vs diF/dt



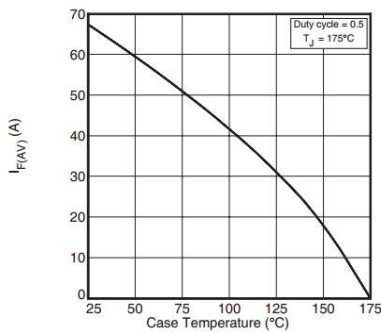
Qrr vs diF/dt



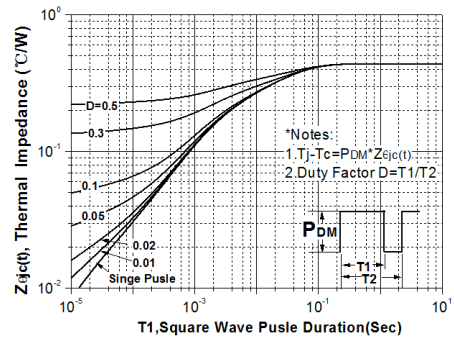
Irrm vs diF/dt



IF vs TC



ZQJC vs tp(s)

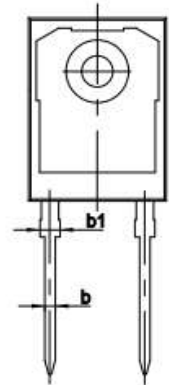
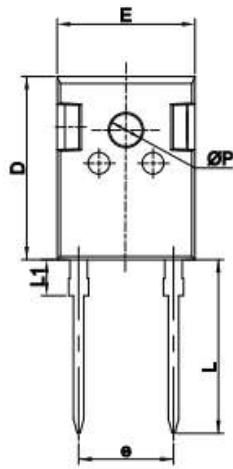




TO-2472L

单位 Unit : mm

SYMBOL	MM	
	MIN	MAX
A	4.80	5.20
b	1.10	1.30
b1	1.95	2.25
c	0.50	0.70
D	20.80	21.20
E	15.60	16.00
F	1.85	2.15
e	10.73	11.03
L	19.62	20.22
L1	3.93	4.33
$\Phi P$	3.40	3.80
Q	2.26	2.56



**注意事项**

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知

**NOTES**

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co, Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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**附录 (Appendix): 修订记录 (Revision History)**

日期 Date	旧版本 Last Rev.	新版本 New Rev.	修订内容 Description of Changes
2019-9-1	902A	909B	修订参数和增加参数图表

