

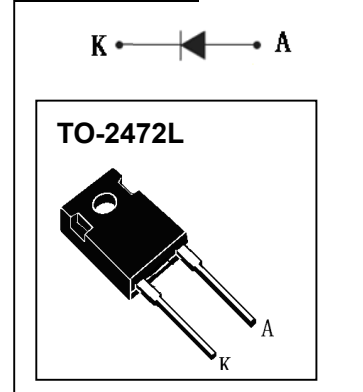


75F120WT

主要参数 MAIN CHARACTERISTICS

IF(AV)	75A
VR(V)	1200 V
Tj(max)	175°C
VF(typ)	2.8V
trr (max)	50ns

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		
75F120WT -GE-B	75F120WT -GE-BR	N/A	N/A	75F120WT	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 _{RRM}	1200	V
正向平均整流电流 Average forward current	I _{F(AV)}	75	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) t=8.3ms	I _{FSM}	450	A
雪崩耐量 Avalanche Energy (1A, 40mH)	E _{AVL}	20	mJ
结温 Junction Temperature	T _j	-55~+175	°C
储存温度 Storage temperature range	T _{STG}	-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 _{RRM}	I _R = 50μA	1200			V
I _R	T _j = 25°C			200	μA
	T _j = 125°C			800	μA
V _F	T _j = 25°C		2.9	3.3	V
	T _j = 125°C		2.5	2.8	V
t _{rr}	I _F = 1A, V _R = 30V, di _F /dt = -100A/μs T _j = 25°C			50	ns
t _{rr}	I _F = 60A, V _R = 200V, di _F /dt = -200A/μs		45		ns
Q _{rr}	T _j = 25°C		120		nc
I _{RRM}			4.6		A
t _{rr}	I _F = 60A, V _R = 200V, di _F /dt = -200A/μs		155		ns
Q _{rr}	T _j = 125°C		764		nc
I _{RRM}			10		A

热特性 THERMAL CHARACTERISTICS

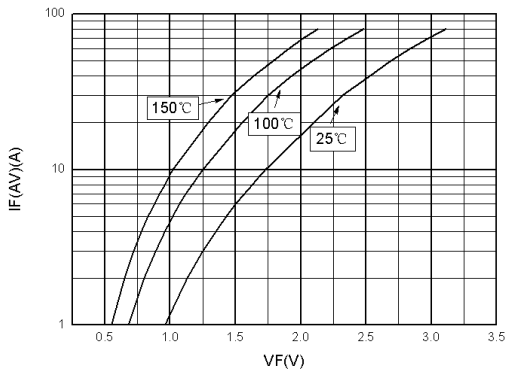
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	R _{th(j-c)}		0.4	°C/W



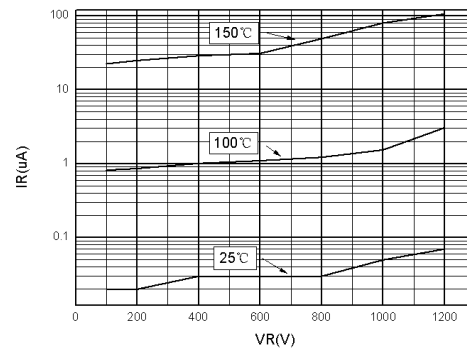


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

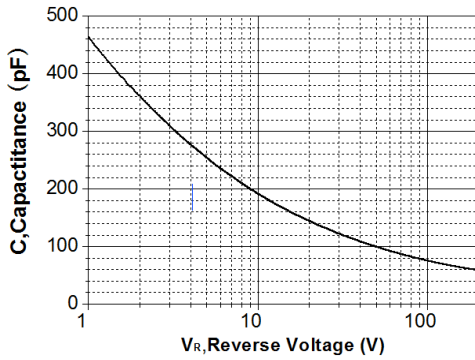
IF vs VF



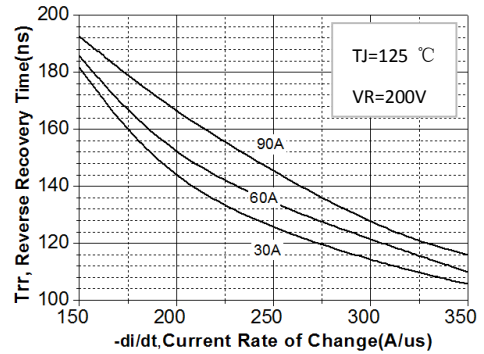
IR vs VR



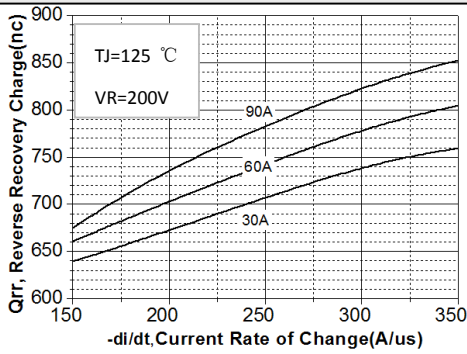
CT vs VR



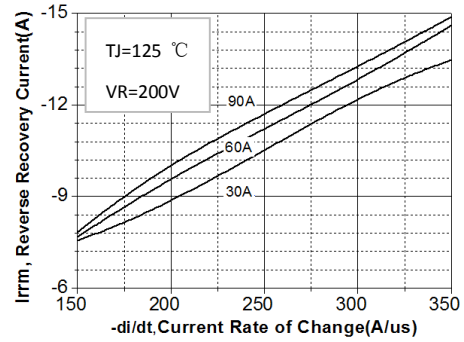
trr vs diF/dt



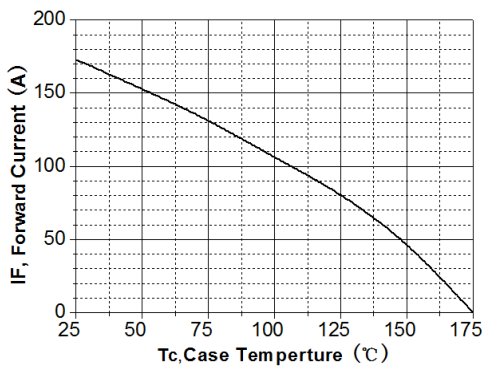
Qrr vs diF/dt



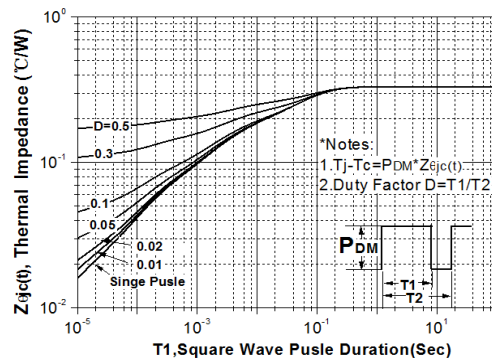
IrRM vs diF/dt



IF vs TC



ZQJC vs tp(s)

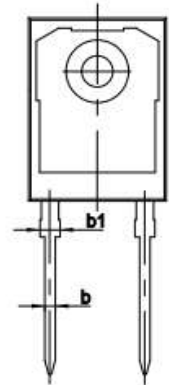
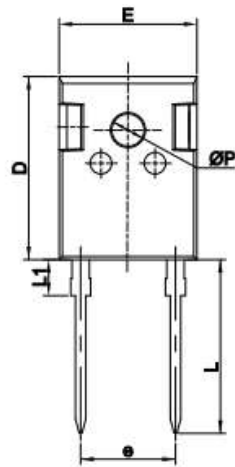




TO-2472L

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
ΦP	3.40	3.80
Q	2.26	2.56



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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	参数修订和增加参数图表

