



75F60W

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	75A
V_{RRM}	600 V
$V_F(typ)$	1.5V
$T_{rr} (typ)$	45ns

用途

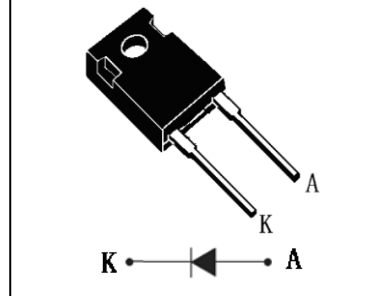
- 吸收回路
- 开关电源
- 高频开关器件并联二极管

APPLICATIONS

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

封装 Package

TO-2472L



产品特性

- 超快恢复时间
- 低恢复损耗
- 低正向压降
- 低漏电流

FEATURES

- Ultrafast Recovery Time
- Low Recovery Loss
- Low Forward Voltage
- Low Leakage Current

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		
75F60W-GE-B	75F60W-GE-BR	75F60W	TO-2472L



**绝对最大额定值 ABSOLUTE RATINGS** ($T_c=25^{\circ}\text{C}$)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
反向重复峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	600	V
平均正向整流电流 $T_c=110^{\circ}\text{C}$ Average Forward Rectified Current	$I_{F(AV)}$	75	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=8.3\text{ms}$	I_{FSM}	600	A
雪崩能量 Avalanche Energy(per diode) $L=40\text{mH}$	E_{AVL}	100	mJ
结温 Junction Temperature	T_j	$-55\sim+150$	$^{\circ}\text{C}$
存储温度 Storage temperature range	T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

电特性 ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ 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 _R	I _R =50μA		600	-	-	V
I _R	T _j =25℃	V _R =V _{RRM}	-	-	50	μA
	T _j =125℃		-	-	800	μA
V _F	T _j =25℃	I _F =75A	-	1.5	1.8	V
	T _j =125℃		-	-	1.7	V
trr	I _F =0.5A, I _R =1A, I _{RR} =0.25A		-	65	80	ns
trr	I _F =1A, V _R =30V, di _F /dt=-200A/μs		-	40		ns
trr	I _F =75A, V _R =400V, di _F /dt=-200A/μs T _C =25℃		-	75	-	ns
Q _{rr}			-	260	-	nc
I _{RRM}			-	5.7	-	A
trr	I _F =75A, V _R =400V, di _F /dt=-200A/μs T _C =125℃		-	225	-	ns
Q _{rr}			-	1100	-	nc
I _{RRM}			-	10	-	A

热特性 THERMAL CHARACTERISTICS (maximum)

项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	$R_{th(j-c)}$	0.4	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

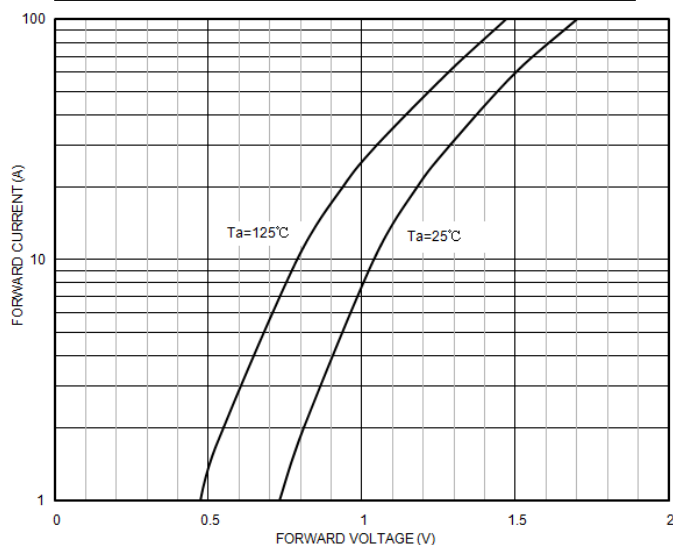


Fig.2 TYPICAL REVERSE CHARACTERISTICS

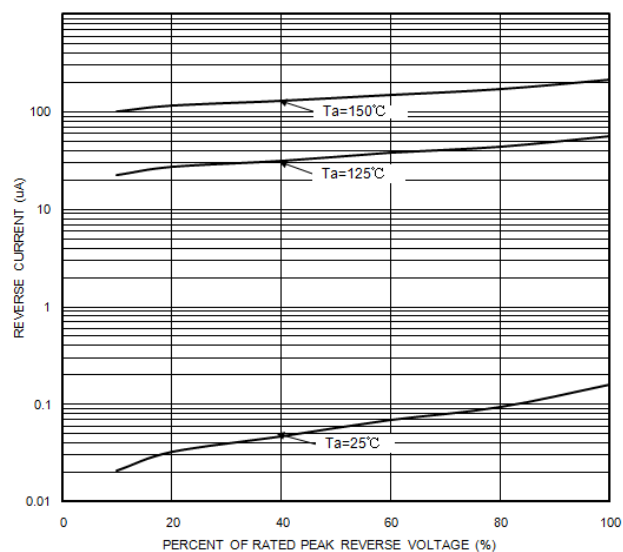
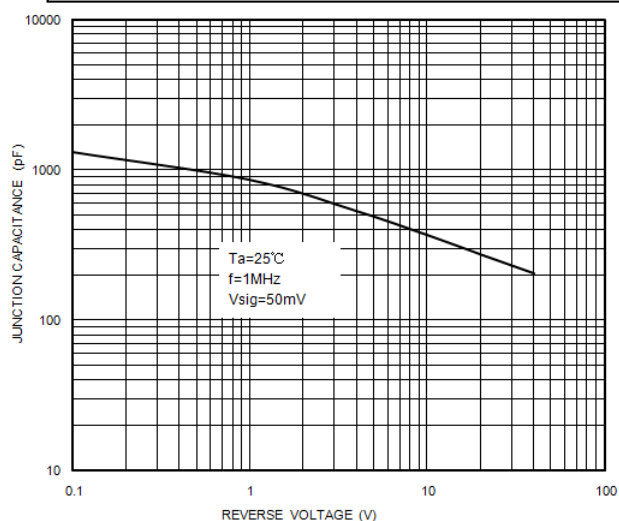
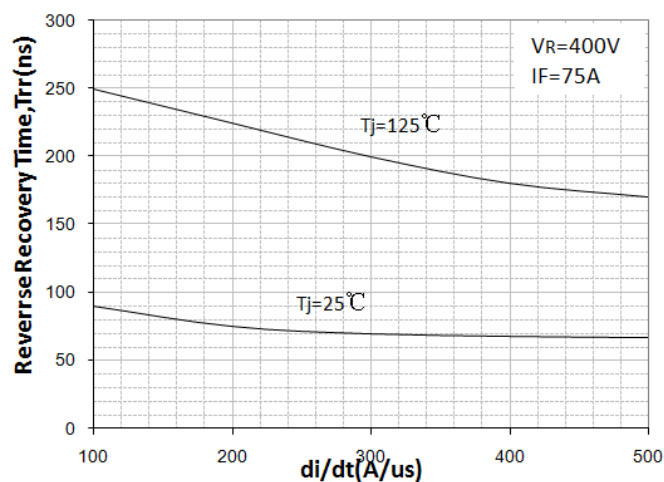
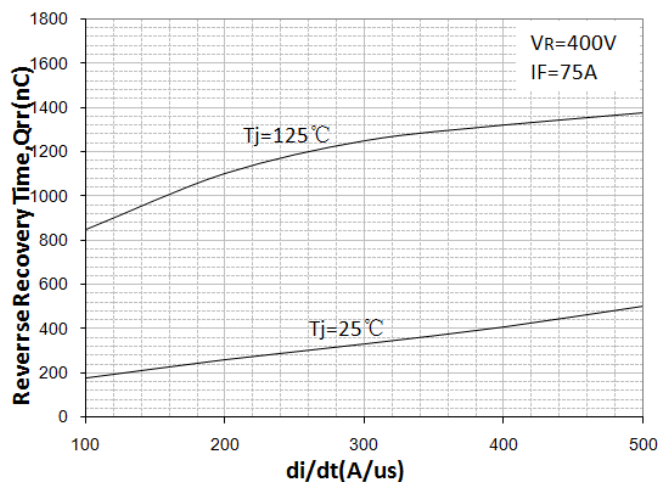
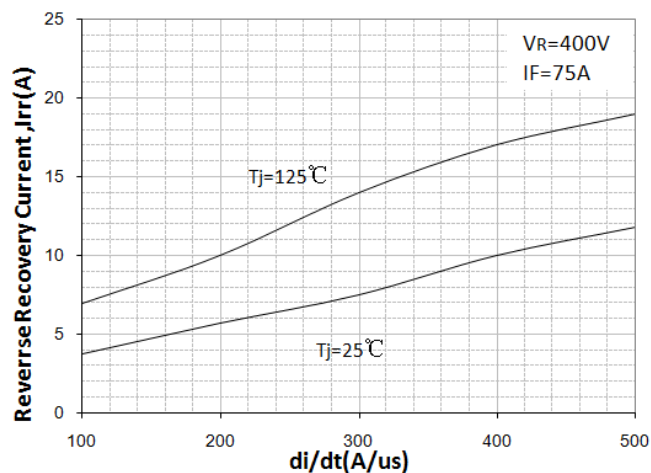


Fig.3 TYPICAL JUNCTION CAPACITANCE

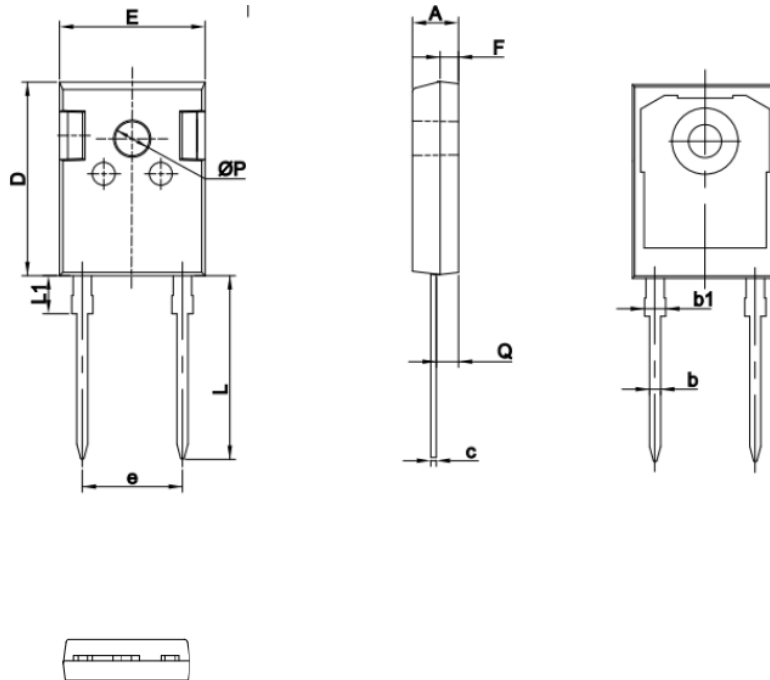
Fig.4 Reverse recovery time versus di/dt Fig.5 Reverse recovery charges versus di/dt Fig.6 Peak reverse recovery current versus di/dt 



外形尺寸 PACKAGE MECHANICAL DATA

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
ØP	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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2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
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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