



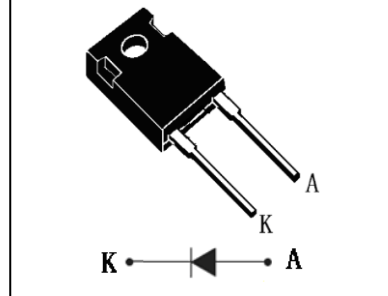
75F60W

主要参数 MAIN CHARACTERISTICS

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

封装 Package

TO-2472L



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

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 (Tc=25°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°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=8.3ms	I _{FSM}	600	A
雪崩能量 Avalanche Energy(per diode) L=40mH	E _{AVL}	100	mJ
结温 Junction Temperature	T _j	-55~+150	°C
存储温度 Storage temperature range	T _{STG}	-55~+150	°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 _R	I _R =50μA		600	-	-	V
I _R	T _j =25°C	V _R =V _{RRM}	-	-	50	μA
	T _j =125°C		-	-	800	μA
V _F	T _j =25°C	I _F =75A	-	1.5	1.8	V
	T _j =125°C		-	-	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°C		-	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°C		-	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	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

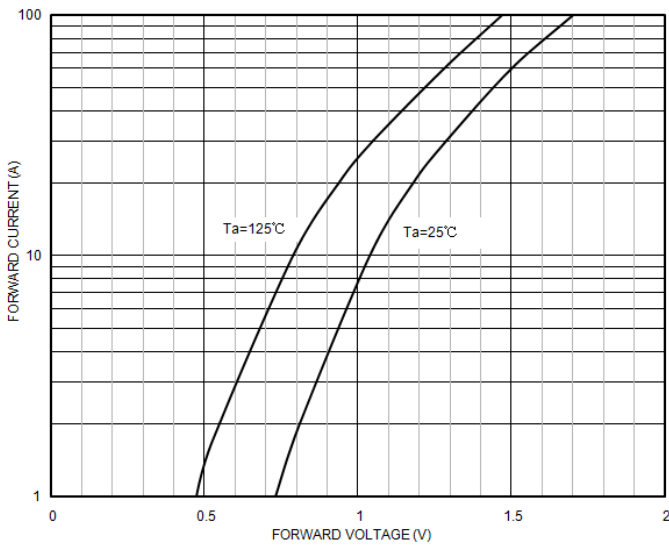


Fig.2 TYPICAL REVERSE CHARACTERISTICS

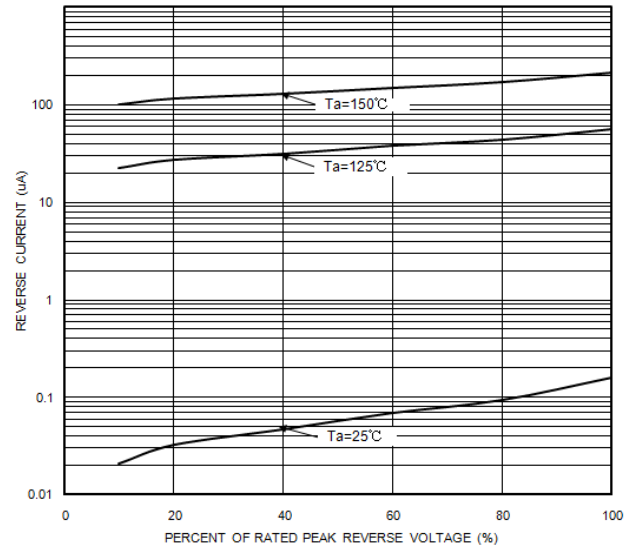


Fig.3 TYPICAL JUNCTION CAPACITANCE

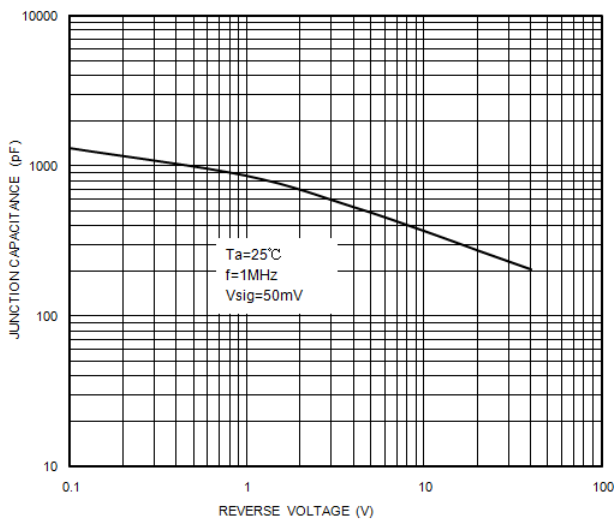


Fig.4 Reverse recovery time versus di/dt

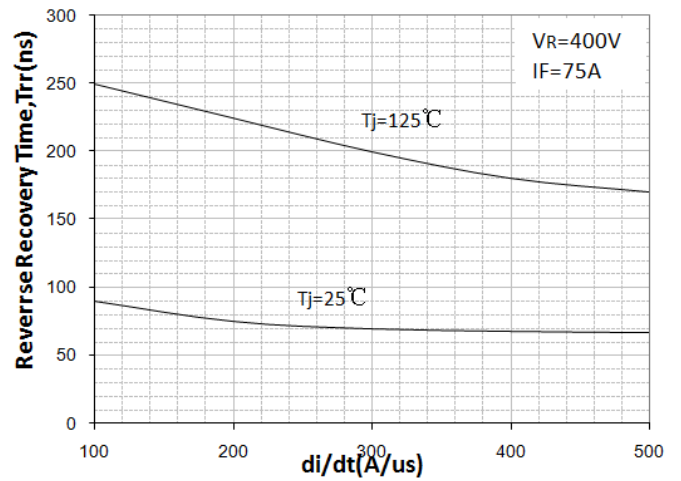


Fig.5 Reverse recovery charges versus di/dt

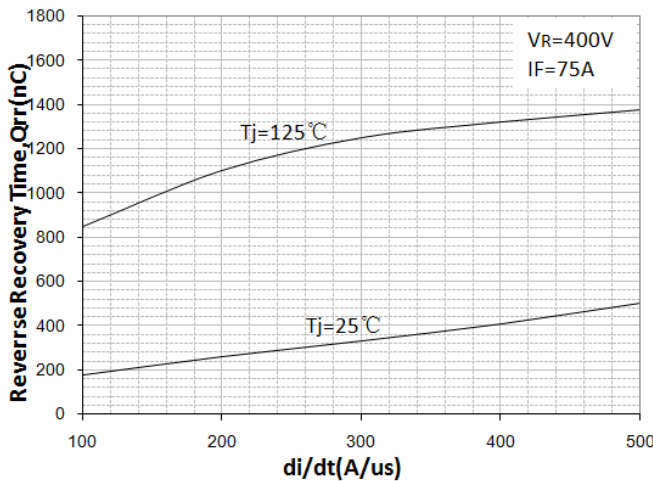
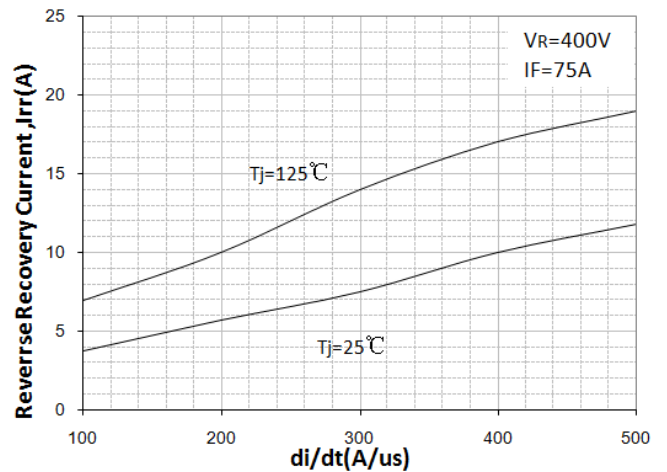


Fig.6 Peak reverse recovery current versus di/dt

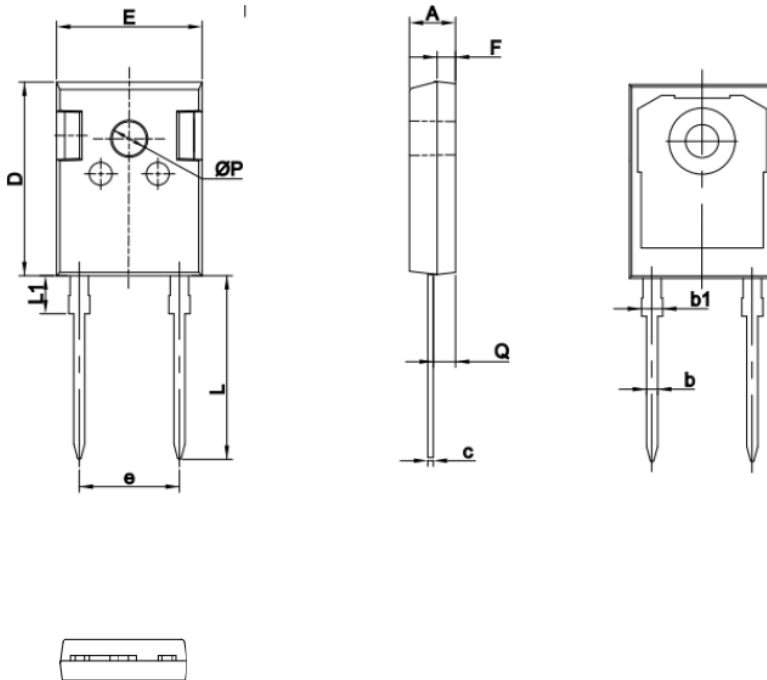




外形尺寸 PACKAGE MECHANICAL DATA

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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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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