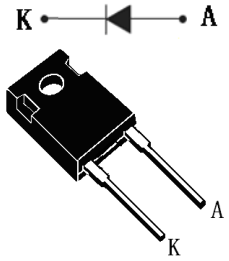
FP40F60AA

主要参数 MAIN CHARACTERISTICS

I_F(AV)	40A
V_{RRM}	600 V
V_F(typ)	1.95V
Trr（typ）	32ns

封装 Package



TO-247-2L

用途

- ●开关电源
- ●PFC
- ●光伏逆变
- ●高频开关器件并联二极管

APPLICATIONS

- Switch power supply
- PFC
- Photovoltaic inverter
- Antiparalle Diode for high frequency switching devices

产品特性

- ●超快恢复时间
- ●低恢复损耗
- ●低漏电流

FEATURES

- ●Ultrafast Recovery Time
- ●Low Recovery Loss
- ●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		
FP40F60AA-GL-B	FP40F60AA-GL-BR	FP40F60AA	TO-247-2L

绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

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℃ Average Forward Rectified Curren	$I_{F(AV)}$	40	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current　t=8.3ms	I_{FSM}	320	A
结温 Junction Temperature	T_j	-55~+175	℃
存储温度 Storage temperature range	T_{STG}	-55~+175	℃

电特性 ELECTRICAL CHARACTERISTICS (Tc=25℃ 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}	-	-	10	μA
	T_j =150℃		-	-	500	μA
V_F	T_j =25℃	I_F=40A	-	1.95	2.35	V
	T_j =150℃		-	1.55	1.95	V
trr	I_F=0.5A, I_R=1A, I_{RR}=0.25A		-	32	45	ns
trr	I_F=40A, V_R=400V, di_F/dt=-200A/μs T_C =25℃		-	37	-	ns
Qrr			-	60	-	nc
I_{RRM}			-	3.4	-	A
trr	I_F=40A, V_R=400V, di_F/dt=-200A/μs T_C =150℃		-	170	-	ns
Qrr			-	1770	-	nc
I_{RRM}			-	16.2	-	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	$R_{th(j-c)}$	0.5	℃/W

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

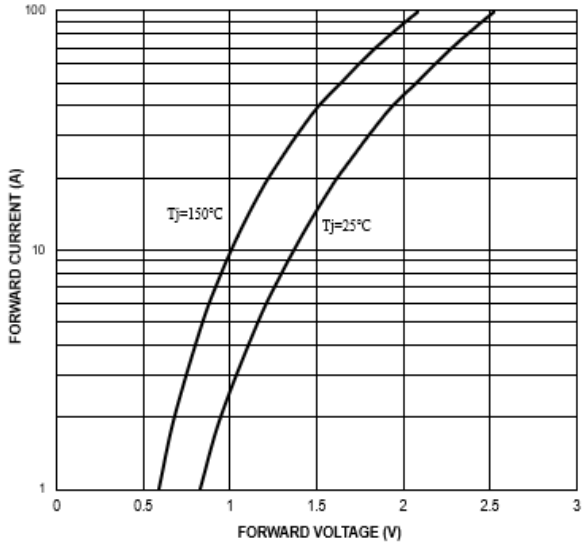


Fig.2 TYPICAL REVERSE CHARACTERISTICS

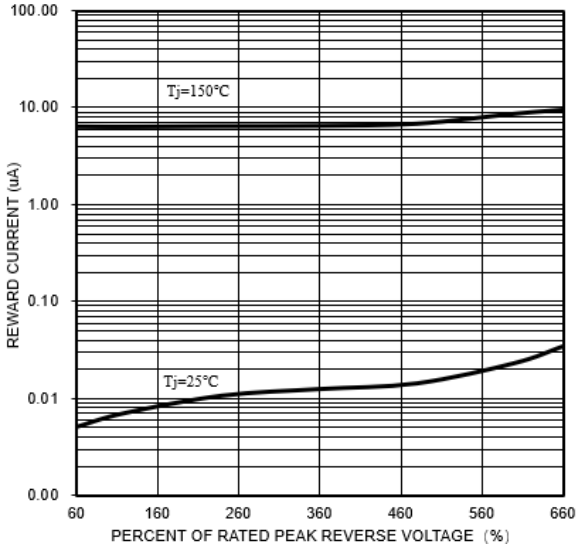


Fig.3 Reverse recovery time versus dIF/dt

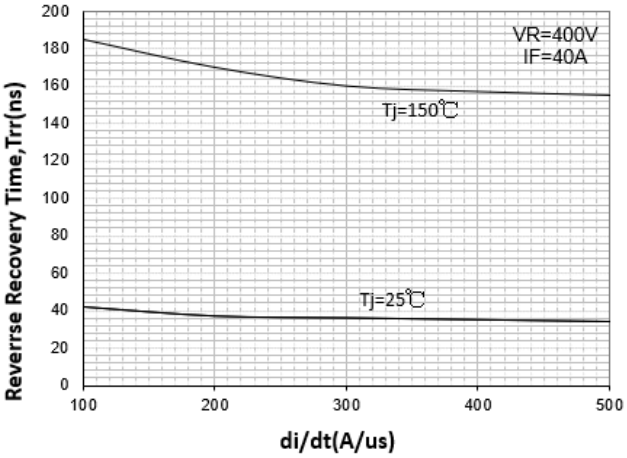


Fig.4 Peak reverse recovery current versus dIF/dt

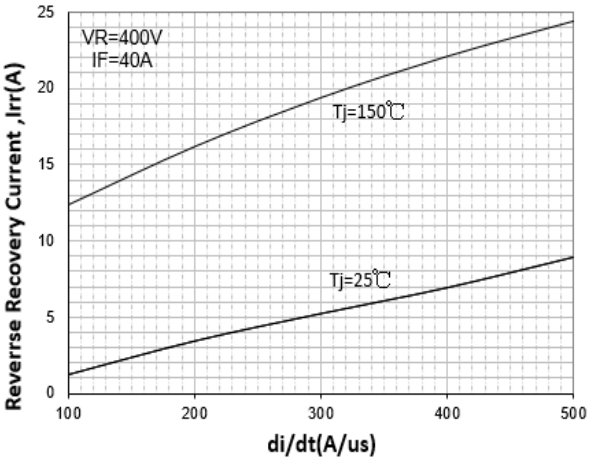
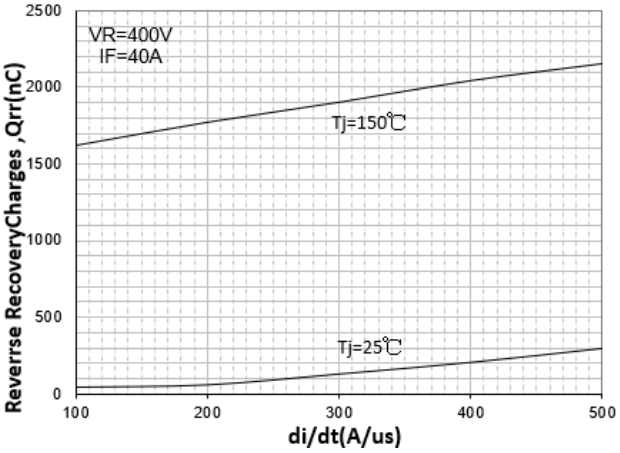


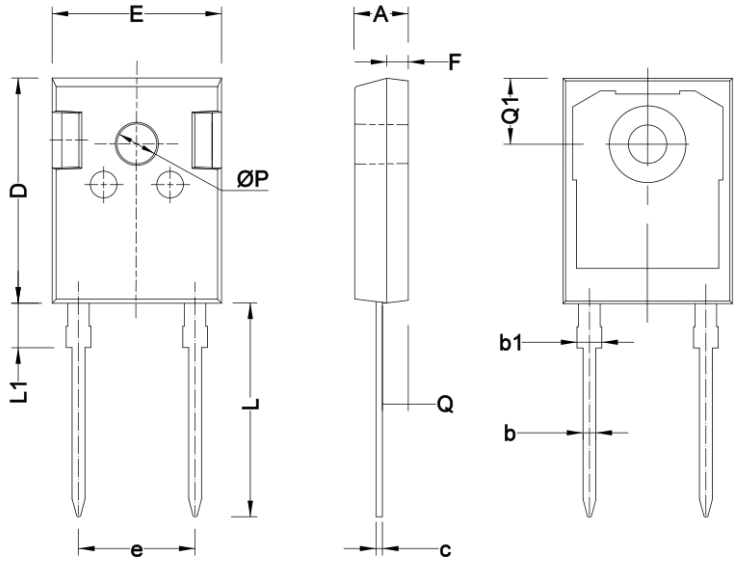
Fig.5 Reverse recovery charges versus dIF/dt



外形尺寸 PACKAGE MECHANICAL DATA

TO-247-2L

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
Q1	6.00	6.40

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