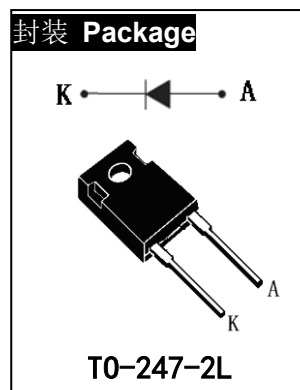




FP80F40AA

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	80A
V_{RRM}	400 V
$V_F(typ)$	1.3V
$T_{rr} (typ)$	51ns



用途

- 有源 PFC
- 开关电源
- 光伏逆变
- 高频开关器件并联二极管

APPLICATIONS

- Active PFC
- Switch power supply
- 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		
FP80F40AA -GL-B	FP80F40AA -GL-BR	FP80F40AA	T0-247-2L



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	VRRM	400	V
平均正向整流电流 $T_c=110^{\circ}\text{C}$ Average Forward Rectified Current	IF(AV)	80	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=10\text{ms}$	IFSM	800	A
结温 Junction Temperature	Tj	$-55^{\circ}\sim+175^{\circ}$	$^{\circ}\text{C}$
存储温度 Storage temperature range	TSTG	$-55^{\circ}\sim+175^{\circ}$	$^{\circ}\text{C}$

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
VR	IR =50 μ A		400	—	—	V
IR	Tj =25℃	VR=VRRM	—	—	10	μ A
	Tj =125℃		—	—	800	μ A
VF	Tj =25℃	IF=80A	—	1.3	1.5	V
	Tj =125℃		—	1.15		V
trr	IF=0.5A, IR=1A, IRR=0.25A		—	60	70	ns
trr	IF=1A, VR=30V, diF/dt=-100A/ μ s		—	40	50	ns
trr	IF=80A, VR=200V, diF/dt=-200A/ μ s Tc =25℃		—	51	—	ns
Qrr			—	325	—	nc
IRRM			—	7	—	A
trr	IF=80A, VR=200V, diF/dt=-200A/ μ s Tc =125℃		—	110	—	ns
Qrr			—	650	—	nc
IRRM			—	10.8	—	A

热特性 THERMAL CHARACTERISTICS (maximum)

项 目 Parameter	符 号 Symbol	封装 Package	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	Rth(j-c)	T0-247-2L	0.45	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

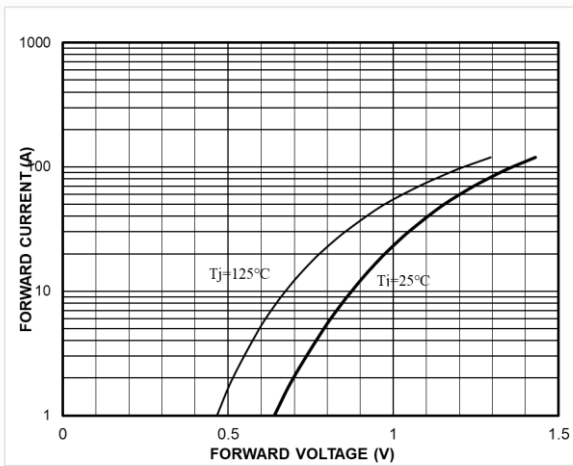
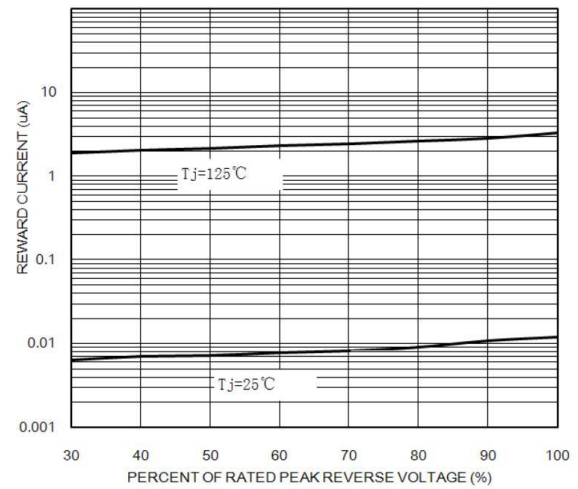
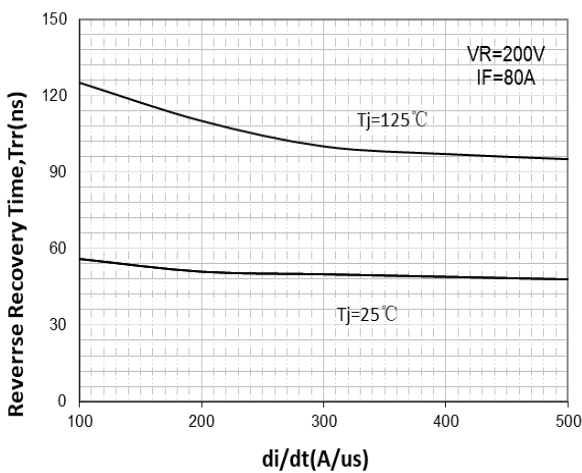
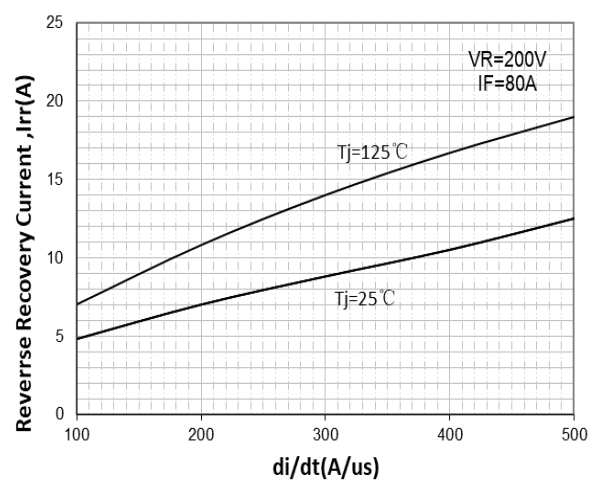
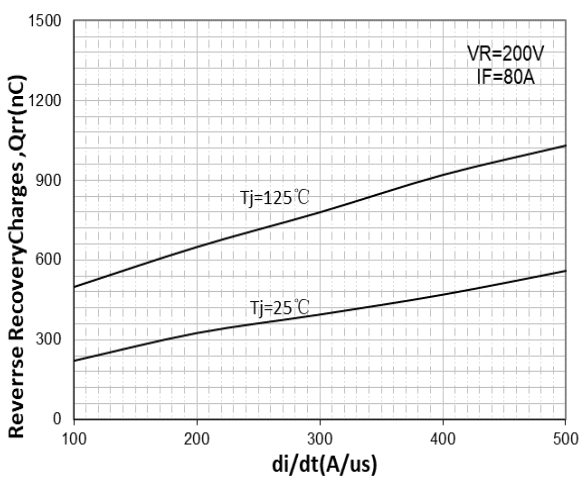


Fig.2 TYPICAL REVERSE CHARACTERISTICS

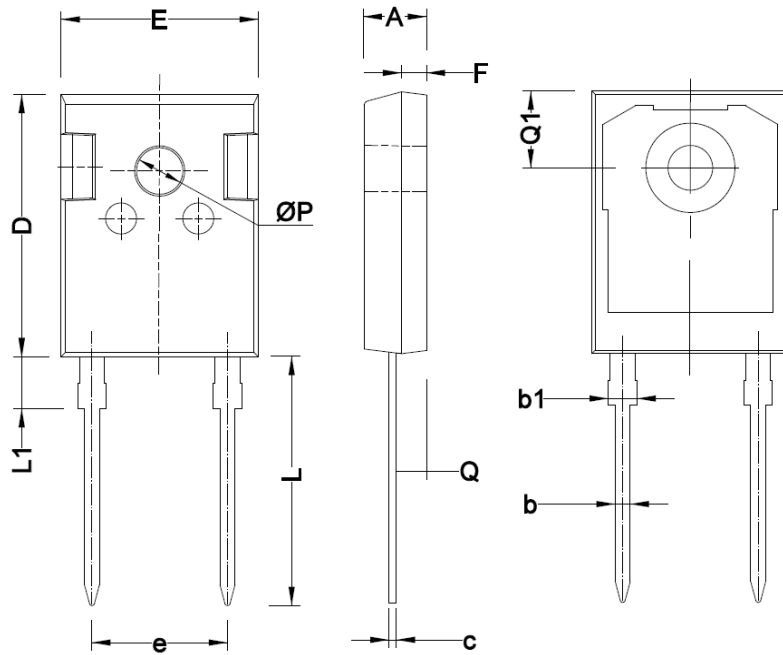
Fig.3 Reverse recovery time versus dI_F/dt Fig.4 Peak reverse recovery current versus dI_F/dt Fig.5 Reverse recovery charges versus dI_F/dt 



外形尺寸 PACKAGE MECHANICAL DATA

T0-247-2L

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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2. 购买时请认清公司商标，如有疑问请与公司本部联系。
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。

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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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