



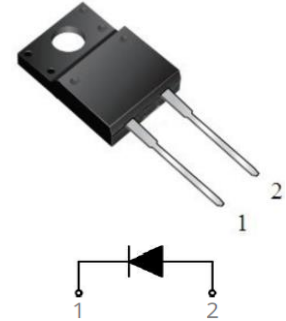
30F60HF

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	30A
V_{RRM}	600 V
$V_F(\text{typ})$	2.0V
$t_{rr}(\text{typ})$	25ns

封装 Package

TO-220HF-2L



用途

- 有源功率校正电路
- 开关电源
- UPS
- 高频开关器件并联二极管

APPLICATIONS

- Active power factor correction
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

产品特性

- 超快恢复时间
- 低正向压降
- 低漏电流

FEATURES

- Ultrafast Recovery Time
- 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		
30F60HF-FL-B	30F60HF-FL-BR	30F60HF	TO-220HF-2L



**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 Repetitive peak reverse voltage	V _{RRM}	600	V
正向平均整流电流 Average forward Current T _C =100°C	I _{F(AV)}	30	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current t=8.3ms	I _{FSM}	270	A
结温 Junction Temperature	T _j	-40~+150	°C
储存温度 Storage temperature range	T _{STG}	-40~+150	°C
安装扭矩 Torque (to heatsink)	Torque	4.0-6.0	Kg·cm

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	700	-	V
I _R	T _j =25°C	V _R =V _{RRM}	-	-	20	μA
	T _j =125°C		-	-	500	μA
V _F	T _j =25°C	I _F =30A	-	2.0	2.5	V
	T _j =125°C		-	1.7	2.1	V
T _{rr}	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		-	30	40	ns
T _{rr}	I _F =1A, V _R =30V, di _F /dt=100A/μs		-	25	30	ns
T _{rr}	I _F =30A, V _R =200V, di _F /dt=200A/μs T _j =25°C		-	36	-	ns
Q _{rr}			-	85	-	nc
I _{RM}			-	3.5	-	A
T _{rr}	I _F =30A, V _R =200V, di _F /dt=200A/μs T _j =125°C		-	86	-	ns
Q _{rr}			-	305	-	nc
I _{RM}			-	7.5	-	A

热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

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)}	3.4	°C/W
结到环境的热阻 Thermal Resistance Junction to ambient	R _{th(j-A)}	60	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

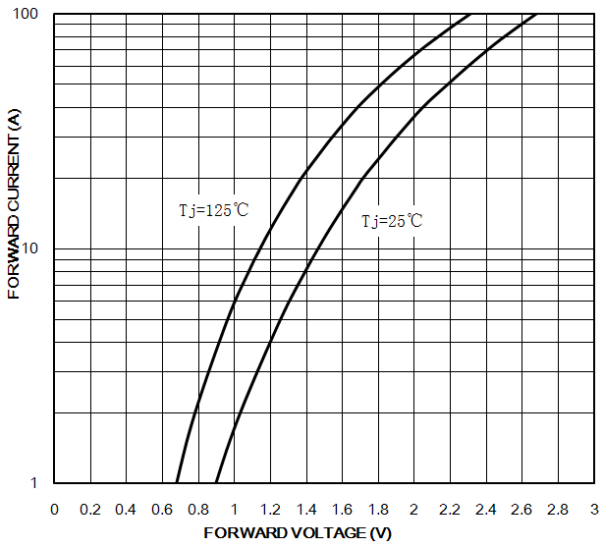


Fig.2 TYPICAL REVERSE CHARACTERISTICS

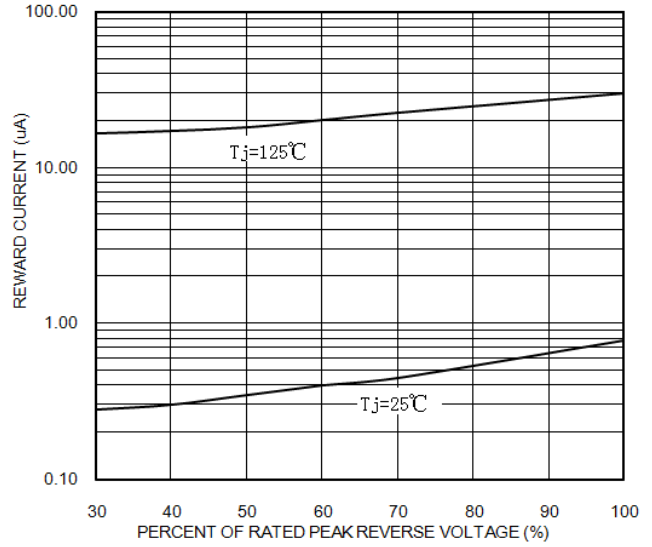


Fig.3 Reverse recovery time versus di/dt

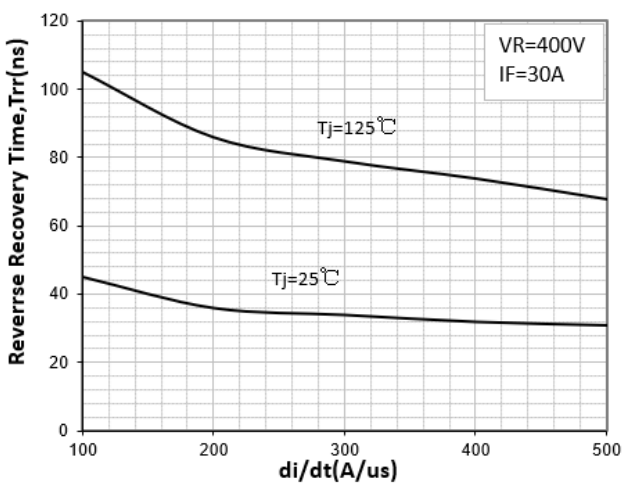


Fig.4 Peak reverse recovery current versus di/dt

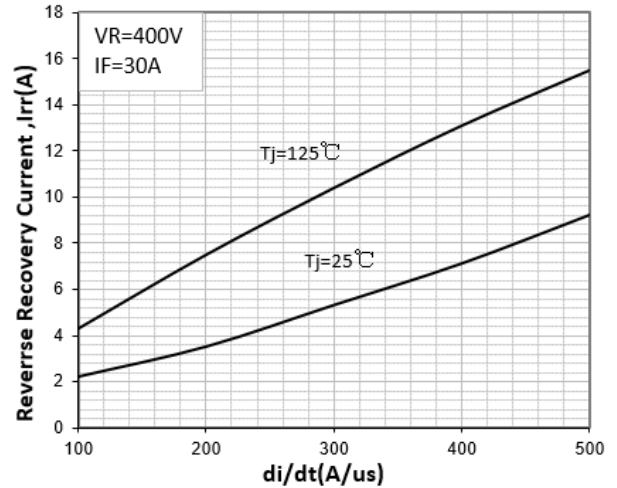


Fig.5 Reverse recovery charges versus di/dt

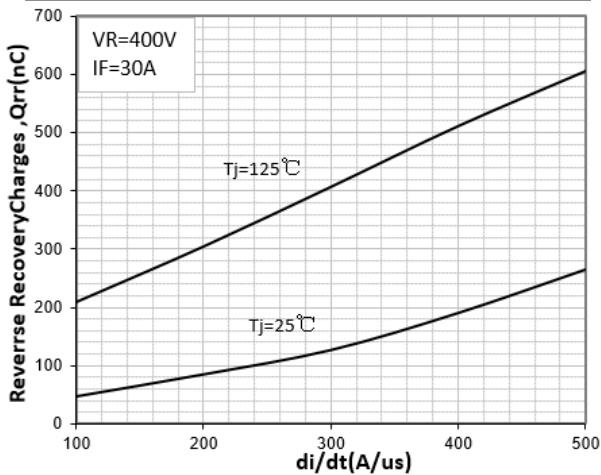
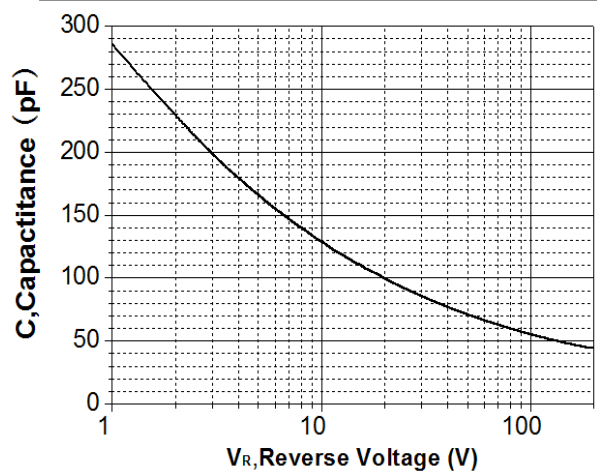


Fig.6 TYPICAL JUNCTION CAPACITANCE

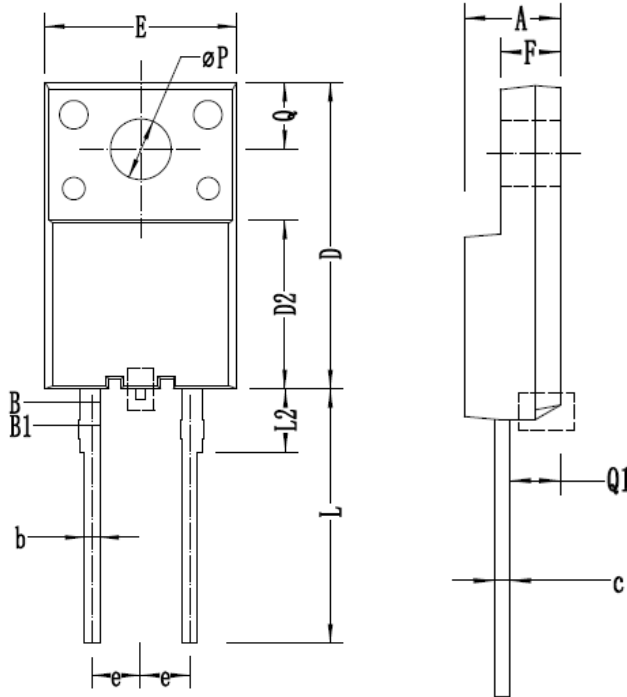




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF-2L

单位 Unit : mm



mm		
SYMBOL	MIN	MAX
A	4.00	5.00
B1	0.87	1.27
B	0.82	1.22
b	0.72	0.92
c	0.50	0.70
D	15.00	16.50
D2	7.80	9.40
E	9.62	10.62
e	2.54TYP	
F	2.30	3.30
L	13.50	14.40
L2	3.10	3.50
ΦP	3.00	3.40
Q	3.15	3.55
Q1	2.20	2.50

注:

1. 虚框区域表示: 塑封体下方有、无余留, 塑封体背面有、无台阶, 均为我司受控外形;





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联系方式

吉林华微电子股份有限公司

公司地址：吉林省吉林市深圳街 99 号

邮编：132013

总机：86-432-64678411

传真：86-432-64665812

网址：www.hwdz.com.cn

CONTACT

JILIN SINO-MICROELECTRONICS CO., LTD.

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel: 86-432-64678411

Fax: 86-432-64665812

Web Site: www.hwdz.com.cn

