



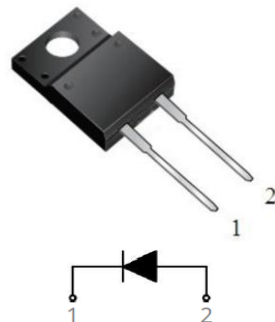
30F60HF

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	30A
V_{RRM}	600 V
$V_F(typ)$	2.0V
$t_{rr} (typ)$	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 ($T_c=25^{\circ}\text{C}$)

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 $T_c=100^{\circ}\text{C}$	$I_{F(AV)}$	30	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=8.3\text{ms}$	I_{FSM}	270	A
结温 Junction Temperature	T_j	$-40\sim+150$	$^{\circ}\text{C}$
储存温度 Storage temperature range	T_{STG}	$-40\sim+150$	$^{\circ}\text{C}$
安装扭矩 Torque (to heatsink)	Torque	4.0-6.0	$\text{Kg} \cdot \text{cm}$

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	700	-	V
I _R	T _j =25℃	V _R =V _{RRM}	-	-	20	μA
	T _j =125℃		-	-	500	μA
V _F	T _j =25℃	I _F =30A	-	2.0	2.5	V
	T _j =125℃		-	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℃		-	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℃		-	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	$^{\circ}\text{C}/\text{W}$
结到环境的热阻 Thermal Resistance Junction to ambient	$R_{th(j-A)}$	60	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

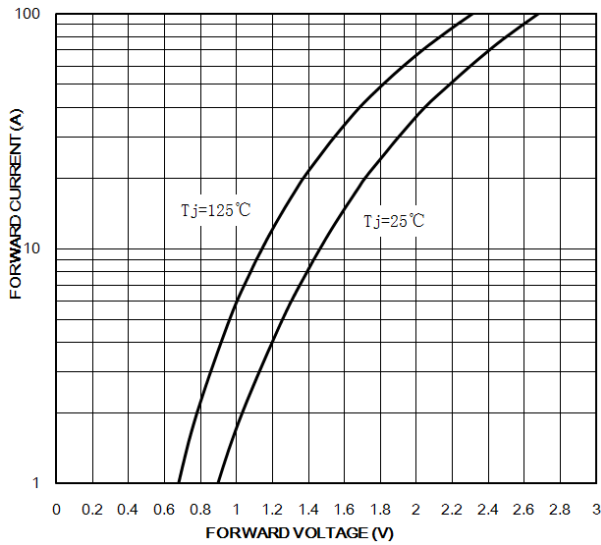


Fig.2 TYPICAL REVERSE CHARACTERISTICS

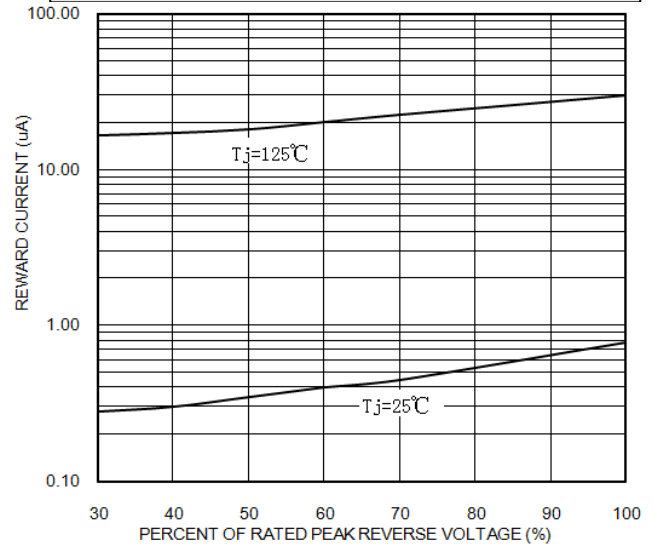
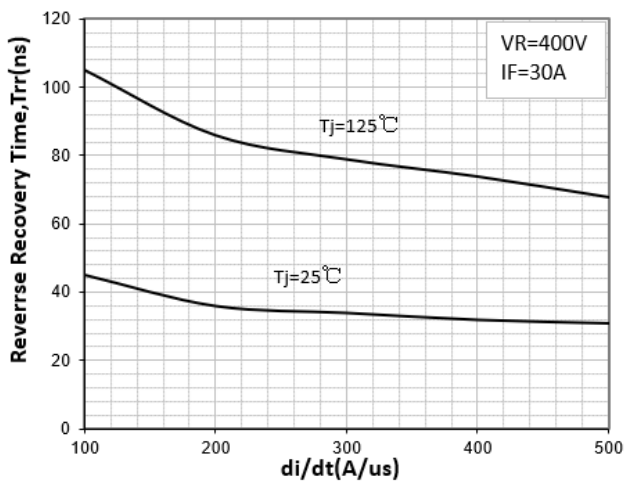
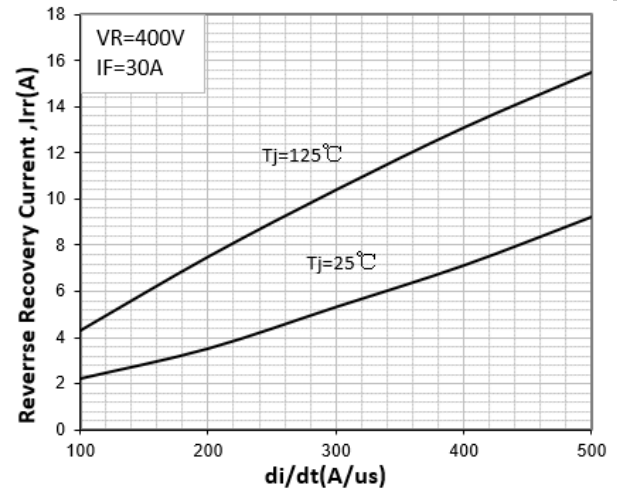
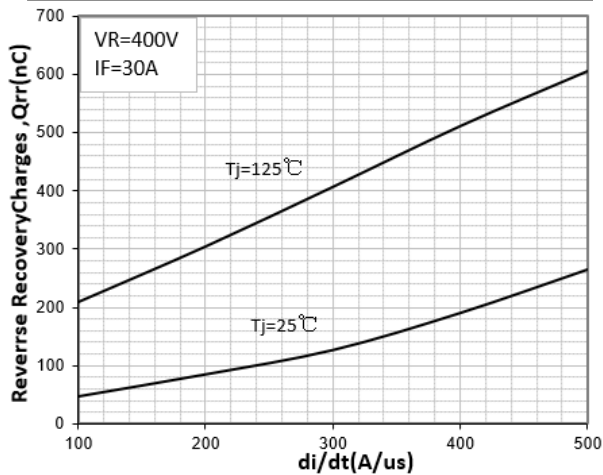
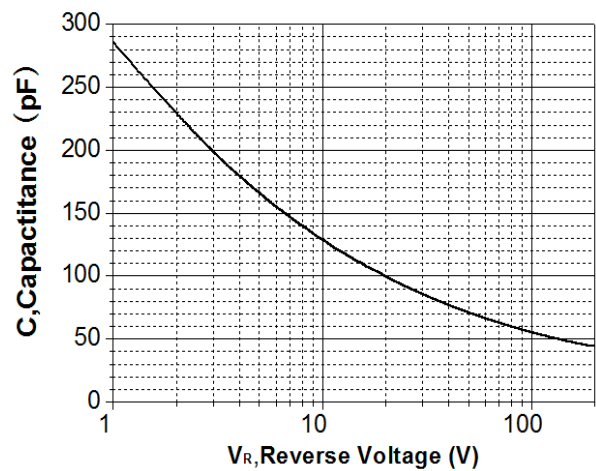
Fig.3 Reverse recovery time versus di/dt Fig.4 Peak reverse recovery current versus di/dt Fig.5 Reverse recovery charges versus di/dt 

Fig.6 TYPICAL JUNCTION CAPACITANCE

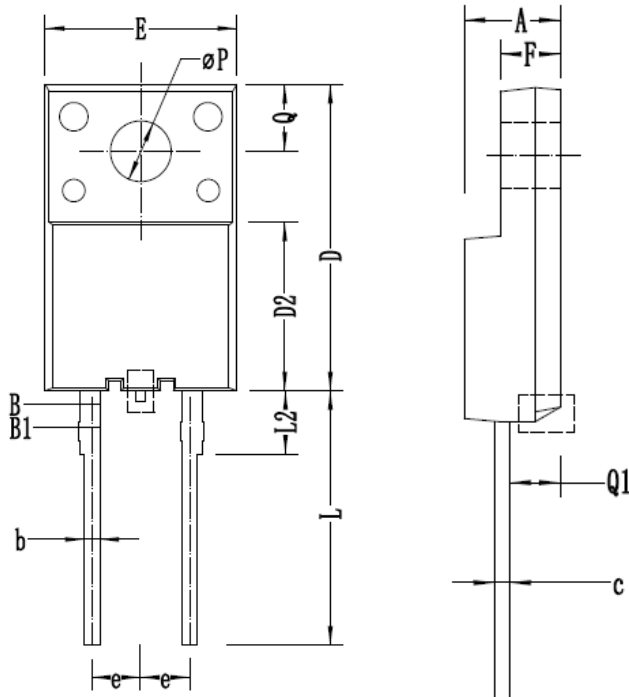




外形尺寸 PACKAGE MECHANICAL DATA

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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