



20F40HF3

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	20 (2×10) A
V_{RRM}	400 V
t_{rr}	22 ns (典型值 typ)
$V_F(max)$	2.1 V (max)

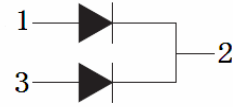
用途

- 开关电源
- UPS

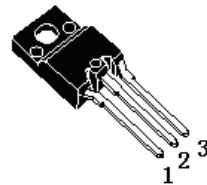
APPLICATIONS

- Switch power supply
- UPS

封装 Package



T0-220HF



产品特性

- 共阴结构
- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

FEATURES

- Common cathode structure
- Low power loss, high efficiency
- High reliability
- RoHS product

订货信息 ORDER MESSAGE

订货型号 Order codes	印记 Marking	封装 Package	包装 Packaging	器件重量 Device Weight
20F40HF3	20F40HF3	TO-220HF	条管 Tube	2.15 g(typ)



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}	400	V
正向平均整流电流 Average forward current	$T_c=100^{\circ}\text{C}$ (TO-220HF)	整个器件 per device 单 侧 per diode	$I_{F(AV)}$	20 10	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) $t=10\text{ms}$			I_{FSM}	100	A
结温 Junction Temperature			T_j	$-55\sim+150$	$^{\circ}\text{C}$
储存温度 Storage temperature range			T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

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
V _{RRM}	I _R =50μA		400			V
I _R	T _j =25℃	V _R =V _{RRM}			50	μA
	T _j =125℃			10	mA	
V _F	T _j =25℃	I _F =10A		1.3	2.1	V
	T _j =125℃			1.1		V
trr	I _F =1A, V _R =30V, di _F /dt=-200A/μs			22	35	ns
	T _j =25℃	I _F =10A		50		ns
	T _j =125℃	V _R =100V di _F /dt=-200A/μs		80		ns

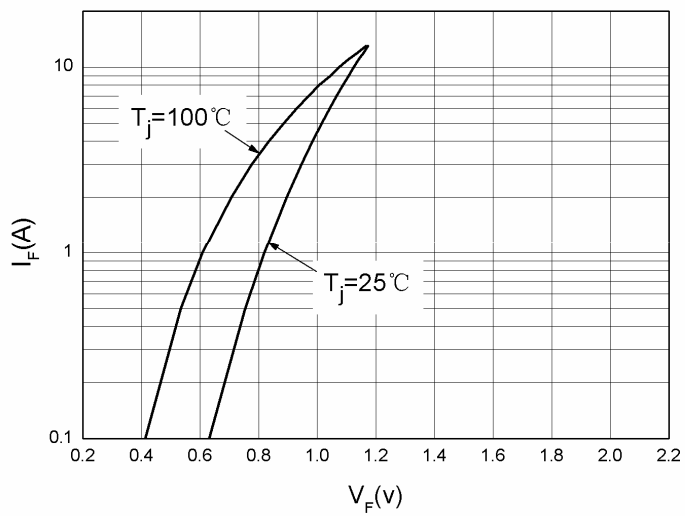
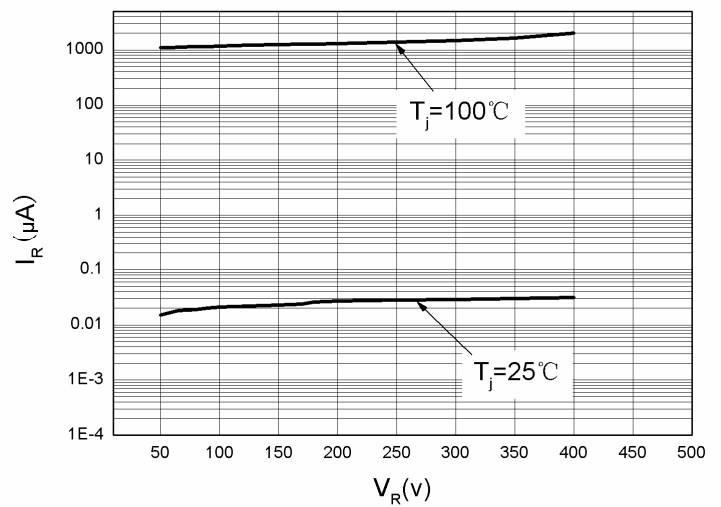
热特性 Thermal Characteristics

项 目 Parameter		符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	TO-220HF	$R_{th(j-c)}$		3.0	$^{\circ}\text{C}/\text{W}$





特征曲线 Electrical characteristics (curves)

 I_F vs V_F  I_R vs V_R 

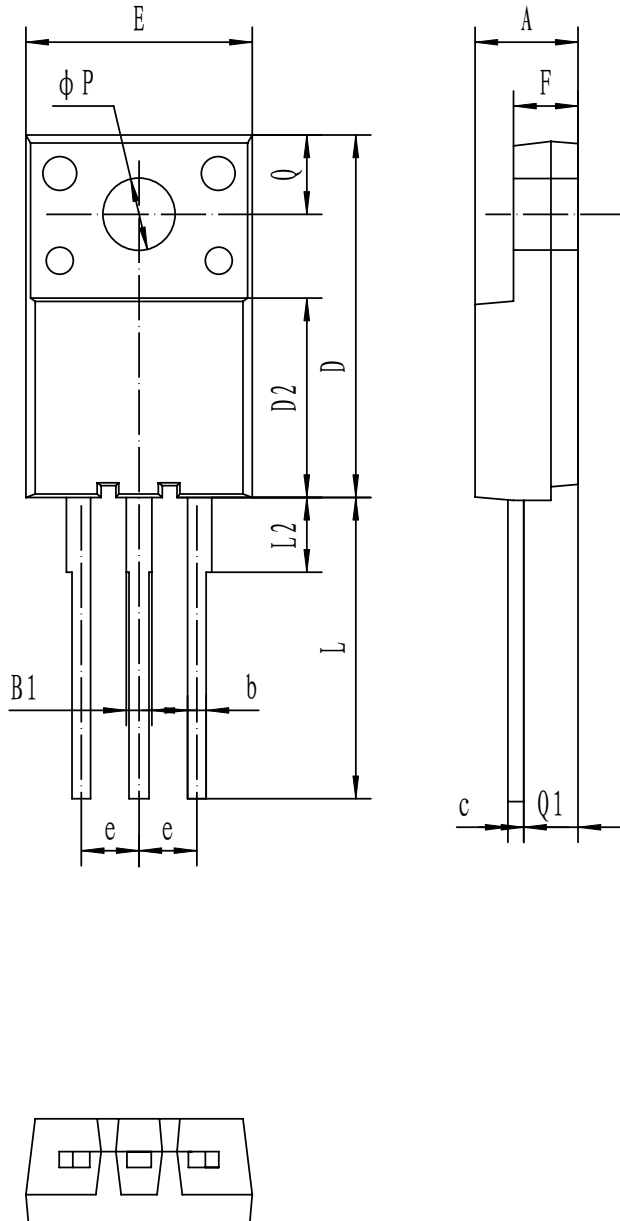


20F40HF3

外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF

单位 Unit : mm



符 号 Symbol	Min	Max
A	4.0	5.0
B1	0.87	1.27
b	0.72	0.92
c	0.5	0.70
D	15.0	16.5
D2	7.8	9.4
E	9.62	10.62
e	2.54(typ)	
F	2.3	3.3
L	12.0	14.0
L2	3.1	3.5
ΦP	3.0	3.4
Q	3.15	3.55
Q1	2.2	2.5



**注意事项**

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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.
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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