



10F60HF/10F60C

主要参数 MAIN CHARACTERISTICS

IF(AV)	10A
VRRM	600 V
Tj(max)	150℃
VF(typ)	1.35V
trr (typ)	25ns

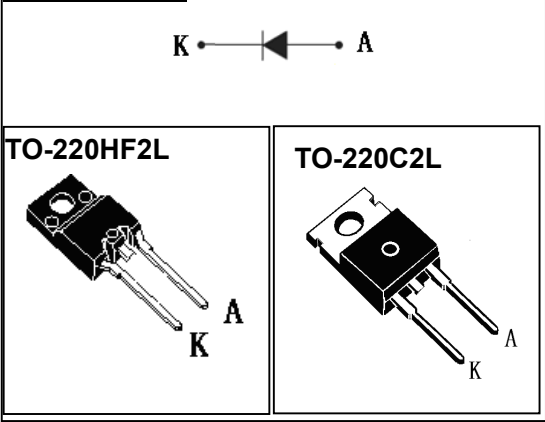
用途

- 有源功率校正电路
- 开关电源
- PFC

APPLICATIONS

- Active power factor correction
- Switch power supply
- PFC

封装 Package



产品特性

- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

FEATURES

- 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
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
10F60HF-FA-B	10F60HF-FA-BR	N/A	N/A	10F60HF	TO-220HF2L
10F60HF-C-B	10F60HF-C-BR	N/A	N/A	10F60C	TO-220C2L



**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	$I_{F(AV)}$	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	$-50\sim+150$	$^{\circ}\text{C}$
储存温度 Storage temperature range	T_{STG}	$-50\sim+150$	$^{\circ}\text{C}$

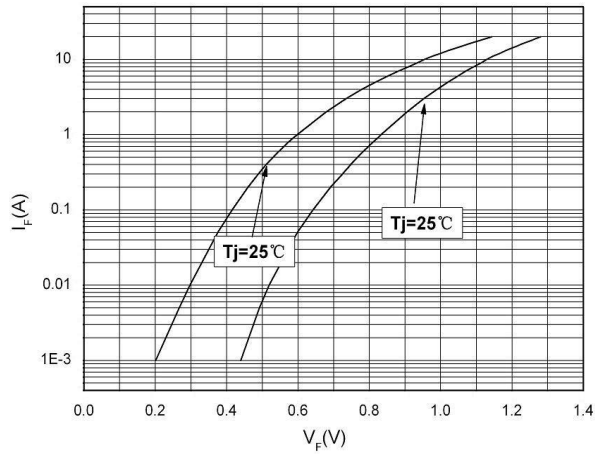
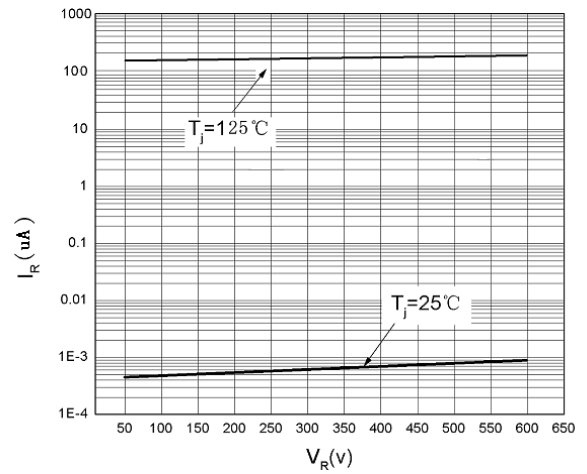
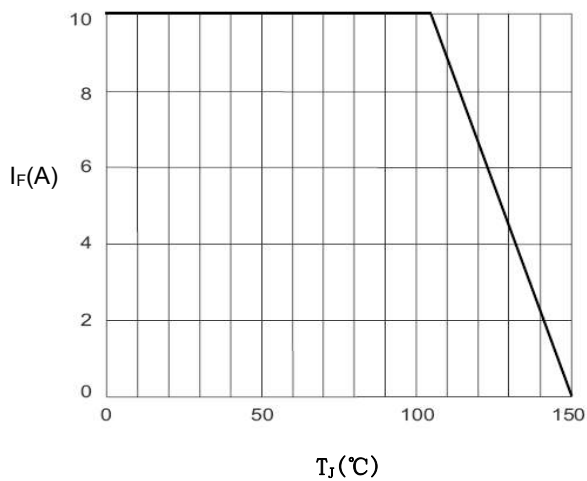
电特性 ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

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		600			V
I _R	T _j =25℃	V _R =V _{RRM}			50	μA
	T _j =125℃				200	μA
V _F	T _j =25℃	I _F =10A		1.35	1.8	V
	T _j =125℃			1.15	1.6	V
trr	I _F =1A, V _R =30V, di _F /dt=-200A/μs				45	ns
	T _j =25℃	I _F =10A			90	ns
	T _j =125℃	V _R =100V di _F /dt=-200A/μs			180	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-220HF2L $R_{th(j-c)}$		3.5	$^{\circ}\text{C}/\text{W}$
	TO-220C2L $R_{th(j-c)}$		2.2	$^{\circ}\text{C}/\text{W}$



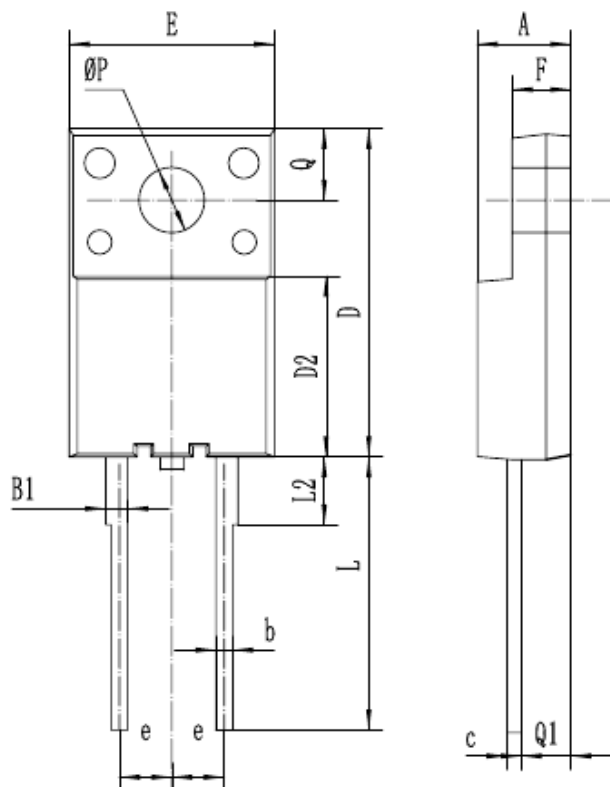
**特征曲线 ELECTRICAL CHARACTERISTICS (curves)** **I_F vs V_F**  **I_R vs V_R**  **I_F vs T_J** 



外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF2L

单位 Unit : mm



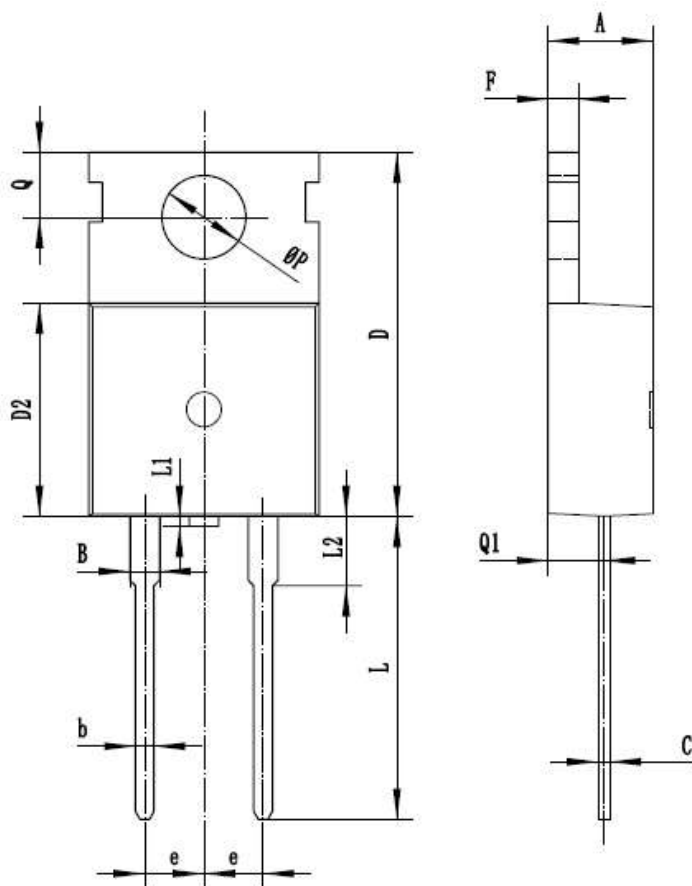
符号 symbol	MIN	MAX
A	4.0	5.0
B1	0.87	1.27
b	0.72	0.92
c	0.5	0.7
D	15.0	16.5
D2	7.8	9.4
E	9.62	10.62
e	2.54 TYP	
F	2.3	3.3
L	13.0	14.0
L2	3.1	3.5
ØP	3.0	3.4
Q	3.15	3.55
Q1	2.2	2.5





TO-220C2L

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.30	4.70
B	1.22	1.40
b	0.70	0.95
c	0.40	0.65
D	15.20	16.20
D2	9.00	9.40
E	9.70	10.10
e	2.39	2.69
F	1.25	1.40
L	12.60	13.60
L1	0.20	0.50
L2	2.80	3.20
Q	2.60	3.00
Q1	2.20	2.60
P	3.50	3.80





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

1. Jilin Sino-microelectronics co.Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
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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