



10F40UHF

主要参数 MAIN CHARACTERISTICS

| | |
|------------|-----------------|
| $I_F(AV)$ | 10 A |
| V_{RRM} | 400 V |
| t_{rr} | 22 ns (典型值 typ) |
| $V_F(max)$ | 1.7 V (max) |

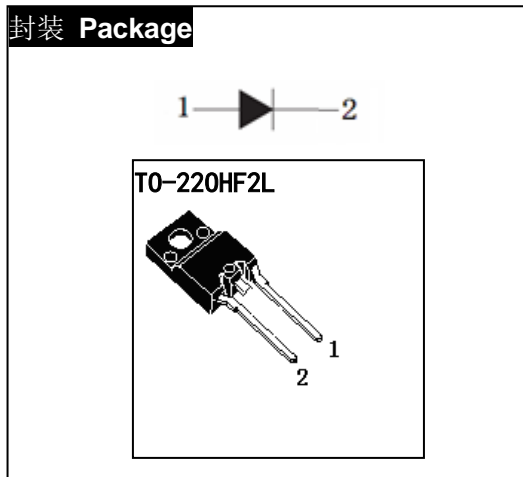
用途

- 开关电源
- UPS

APPLICATIONS

- Switch power supply
- UPS

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 | | |
| 10F40UHF-FA-B | 10F40UHF-FA-BR | N/A | N/A | 10F40UHF | TO-220HF2L |





绝对最大额定值 ABSOLUTE RATINGS (T_C=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} | 400 | 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=10ms | I _{FSM} | 50 | A |
| 结温 Junction Temperature | T _j | -55~+150 | °C |
| 储存温度 Storage temperature range | T _{STG} | -55~+150 | °C |

电特性 ELECTRICAL CHARACTERISTICS (T_C=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 _{RRM} | I _R =50μA | 400 | | | V |
| I _R | T _j =25°C | | | 50 | μA |
| | T _j =125°C | | | 10 | mA |
| V _F | T _j =25°C | | 1.3 | 1.7 | V |
| | T _j =125°C | | 1.1 | | V |
| t _{rr} | I _F =1A, V _R =30V, di _F /dt=-200A/μs | | 22 | 35 | ns |
| | T _j =25°C | | 50 | | ns |
| | T _j =125°C | | 80 | | ns |

热特性 Thermal Characteristics

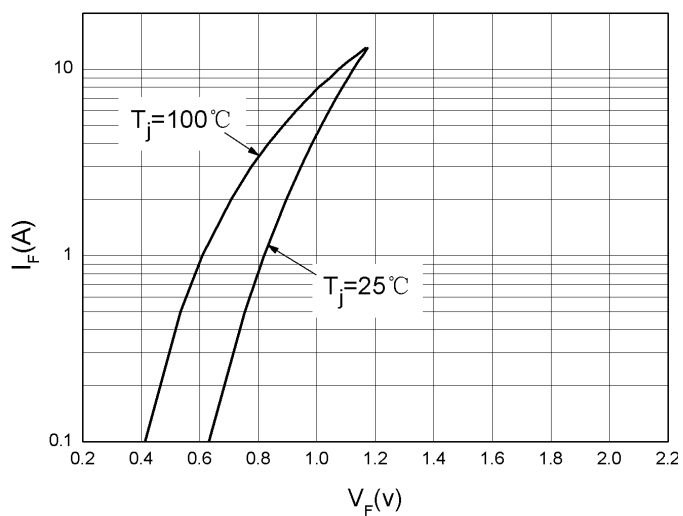
| 项 目 Parameter | 符 号 Symbol | 最小值 Value(min) | 最大值 Value(max) | 单 位 Unit |
|---|----------------------|-------------------|-------------------|-------------|
| 结到管壳的热阻 Thermal resistance from junction to case | R _{th(j-c)} | | 3.0 | °C/W |



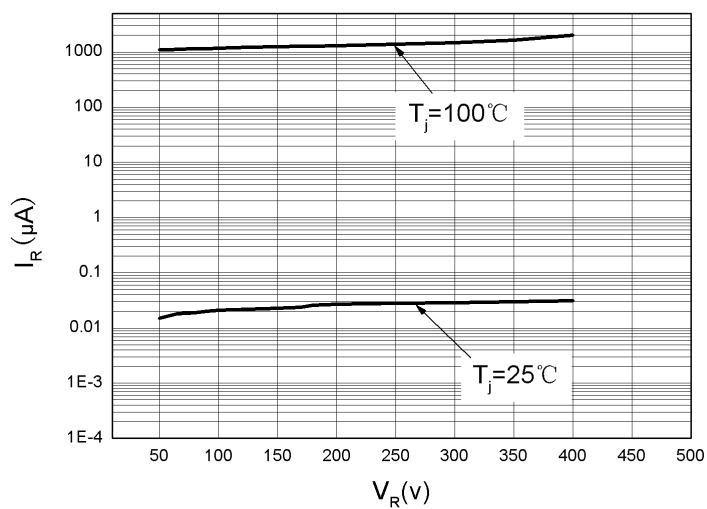


特征曲线 Electrical characteristics (curves)

I_F vs V_F



I_R vs V_R

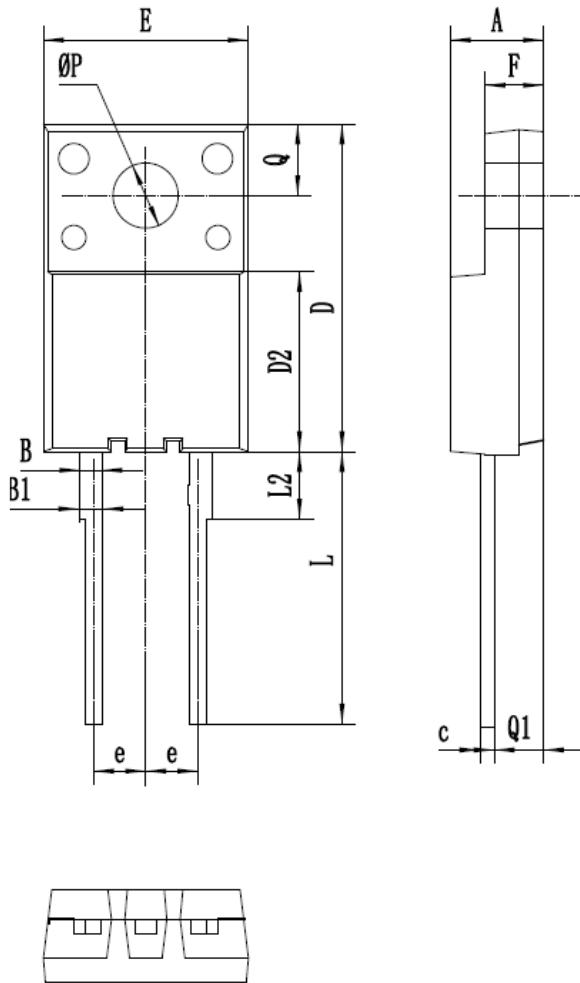




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF2L

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 | 12.00 | 14.00 |
| L2 | 3.10 | 3.50 |
| ΦP | 3.00 | 3.40 |
| Q | 3.15 | 3.55 |
| Q1 | 2.20 | 2.50 |





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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