



# 8F60UHF/8F60UC

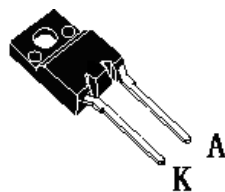
## 主要参数 MAIN CHARACTERISTICS

|               |       |
|---------------|-------|
| $I_F(AV)$     | 8A    |
| $V_{RRM}$     | 600 V |
| $V_F(typ)$    | 1.8V  |
| $T_{rr}(typ)$ | 20ns  |

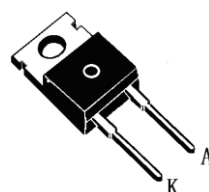
## 封装 Package



### TO-220HF2L



### TO-220C2L



## 用途

- 有源功率校正电路
- 开关电源
- PFC

## APPLICATIONS

- Active power factor correction
- Switch power supply
- PFC

## 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<br>Marking | 封 装<br>Package |
|-----------------------|----------------------------|----------------|----------------|
| 有卤-条管<br>Halogen-Tube | 无卤-条管<br>Halogen Free-Tube |                |                |
| 8F60UHF-FA-B          | 8F60UHF-FA-BR              | 8F60UHF        | TO-220HF2L     |
| 8F60UC-C-B            | 8F60UC-C-BR                | 8F60UC         | TO-220C2L      |



绝对最大额定值 ABSOLUTE RATINGS ( $T_c=25^{\circ}\text{C}$ )

| 项 目<br>Parameter                                                        | 符 号<br>Symbol | 数 值<br>Value  | 单 位<br>Unit        |
|-------------------------------------------------------------------------|---------------|---------------|--------------------|
| 最大反向重复峰值电压<br>Repetitive peak reverse voltage                           | $V_{RRM}$     | 600           | V                  |
| 平均正向整流电流 $T_c=100^{\circ}\text{C}$<br>Average Forward Rectified Current | $I_{F(AV)}$   | 8             | A                  |
| 非重复浪涌正向电流<br>Non-Repetitive Surge Forward Current $t=10\text{ms}$       | $I_{FSM}$     | 80            | A                  |
| 结温<br>Junction Temperature                                              | $T_j$         | $-50\sim+150$ | $^{\circ}\text{C}$ |
| 储存温度<br>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<br>Parameter | 测试条件<br>Tests conditions                                              |                    | 最小值<br>Value(min) | 典型值<br>Value(typ) | 最大值<br>Value(max) | 单位<br>Unit |
|------------------|-----------------------------------------------------------------------|--------------------|-------------------|-------------------|-------------------|------------|
| V <sub>RRM</sub> | I <sub>R</sub> =50μA                                                  |                    | 600               | -                 | -                 | V          |
| I <sub>R</sub>   | T <sub>j</sub> =25℃                                                   | -                  | -                 | 10                | 10                | μA         |
|                  | T <sub>j</sub> =125℃                                                  | -                  | -                 | 200               | 200               | μA         |
| V <sub>F</sub>   | T <sub>j</sub> =25℃                                                   | I <sub>F</sub> =8A | -                 | 1.8               | 2.4               | V          |
|                  | T <sub>j</sub> =125℃                                                  |                    | -                 | 1.5               | 2.1               | V          |
| T <sub>rr</sub>  | I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>RR</sub> =0.25A    |                    | -                 | 20                | 30                | nS         |
| T <sub>rr</sub>  | I <sub>F</sub> =1A, V <sub>R</sub> =30V, di <sub>F</sub> /dt=-200A/μs |                    | -                 | 19                | 30                | nS         |

## 热特性 THERMAL CHARACTERISTICS

| 项 目<br>Parameter                               | 符 号<br>Symbol | 封 装<br>Package | 最大值<br>Value(max) | 单 位<br>Unit                 |
|------------------------------------------------|---------------|----------------|-------------------|-----------------------------|
| 结到管壳的热阻<br>Thermal Resistance Junction to Case | $R_{th(j-c)}$ | TO-220HF2L     | 3.5               | $^{\circ}\text{C}/\text{W}$ |
|                                                |               | TO-220C2L      | 2.2               |                             |





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

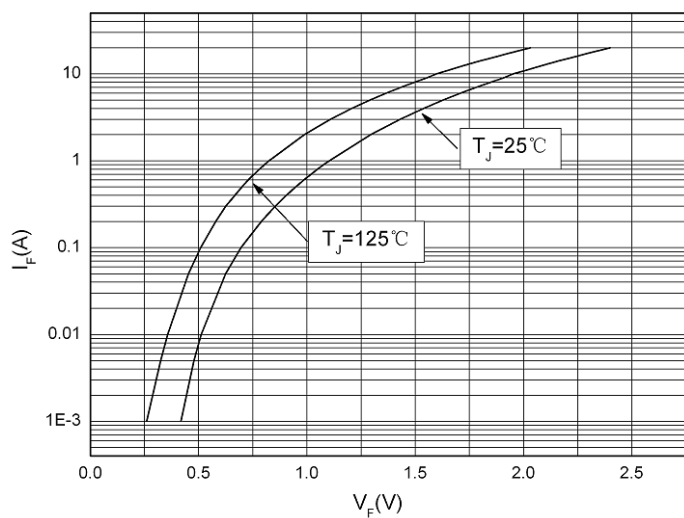
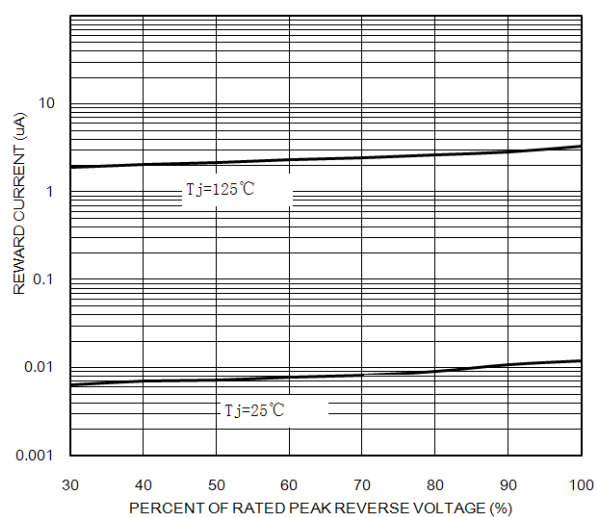
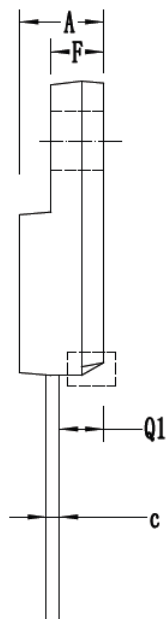
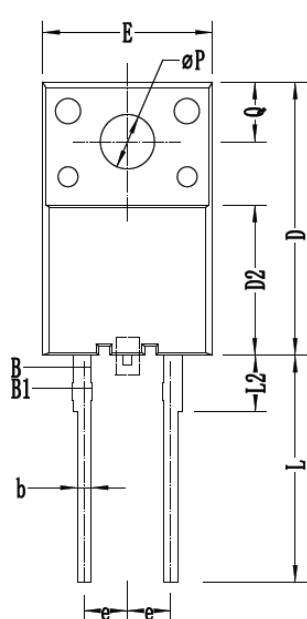


Fig.2 TYPICAL REVERSE CHARACTERISTICS

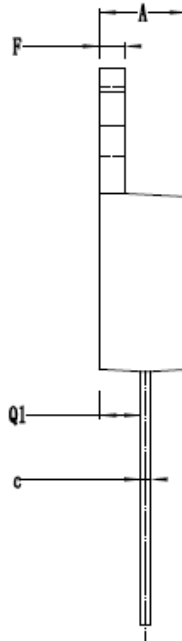
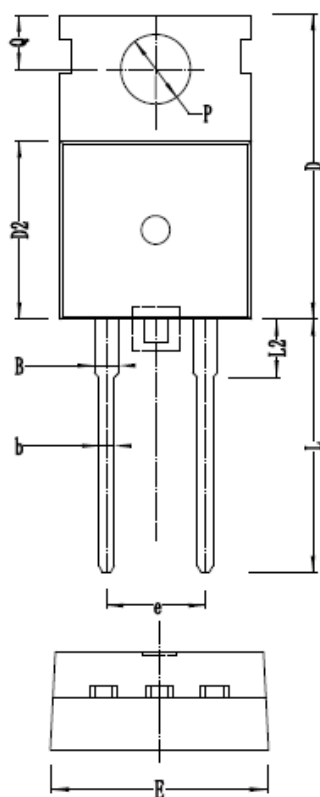




| mm     |         |       |
|--------|---------|-------|
| SYMBOL | MIN     | MAX   |
| A      | 4.00    | 5.00  |
| B1     | 0.87    | 1.27  |
| B      | 0.82    | 1.22  |
| b      | 0.72    | 0.92  |
| c      | 0.50    | 0.70  |
| D      | 15.00   | 16.50 |
| D2     | 7.80    | 9.40  |
| E      | 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:

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;



| 符号<br>symbol | 单位: mm |       |
|--------------|--------|-------|
|              | 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            | 4.78   | 5.38  |
| F            | 1.25   | 1.40  |
| L            | 12.60  | 13.60 |
| L2           | 2.80   | 3.20  |
| ΦP           | 3.50   | 3.80  |
| Q            | 2.60   | 3.00  |
| Q1           | 2.20   | 2.60  |

注:

1. 虚线区域代表, 此位置有、无余留, 均为我司受控外形;





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4. 本说明书如有版本变更不另外告知

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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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](http://www.hwdz.com.cn).

### 市场营销部

地址：吉林省吉林市深圳街 99 号

邮编：132013

电话： 86-432-64675588

64675688

64678411-3098/3099

传真：86-432-64671533

### 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](http://www.hwdz.com.cn).

### MARKET DEPARTMENT

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

Post Code: 132013

Tel: 86-432-64675588

64675688

64678411-3098/3099

Fax: 86-432-64671533

