

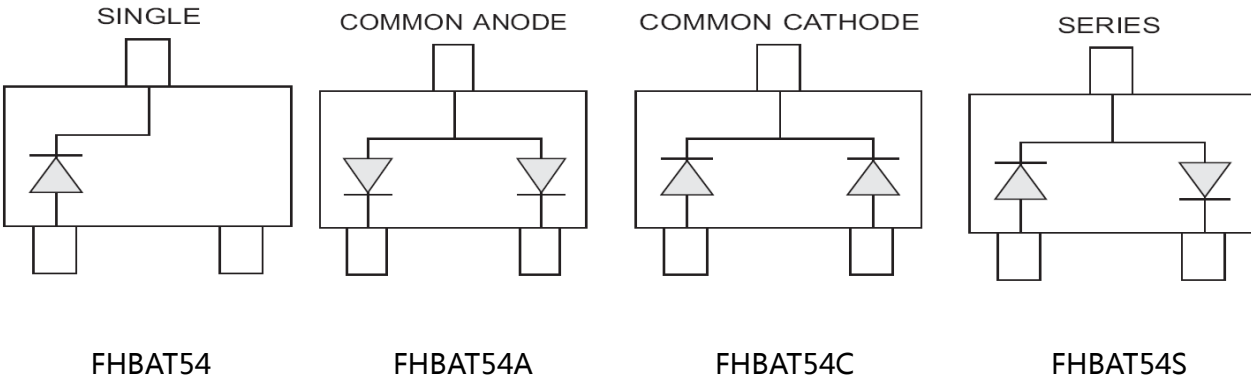
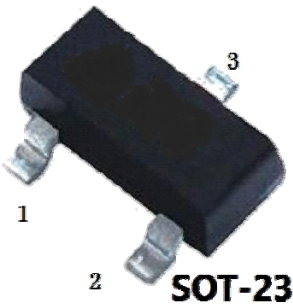
■ 描述 DESCRIPTIONS

SOT-23 塑封封装肖特基二极管。Schottky Diode in SOT-23 Plastic Package.

■ 应用 APPLICATIONS

快速开关。Fast switching.

■ 引脚说明和内部等效电路 PIN ASSIGNMENT&EQUIVALENT CIRCUIT



■ 型号构成 NAME RULE

| 基本名称<br>Name   |                |                | 辅助识别代码<br>Additional code |                   |                 |                       |
|----------------|----------------|----------------|---------------------------|-------------------|-----------------|-----------------------|
| 第一部分<br>Part 1 | 第二部分<br>Part 2 | 第三部分<br>Part 3 | 第四部分<br>Part 4            | 第五部分<br>Part 5    | 第六部分<br>Part 6  | 第七部分<br>Part 7        |
| 品牌<br>Brand    | 产品类别<br>Type   | 产品型号<br>Model  | 分档<br>Value               | 分隔号<br>Separatrix | 封装代码<br>Package | 附加码（备用）<br>Extra-code |
| FH             | B :<br>肖特基二极管  | AT54           | A<br>C<br>S               | "_"               | M: SOT23        | E : ROHS              |

**■ 额定值ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

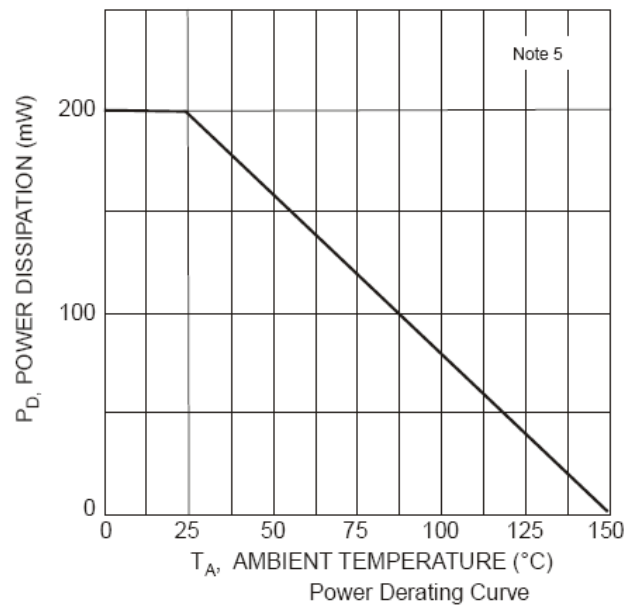
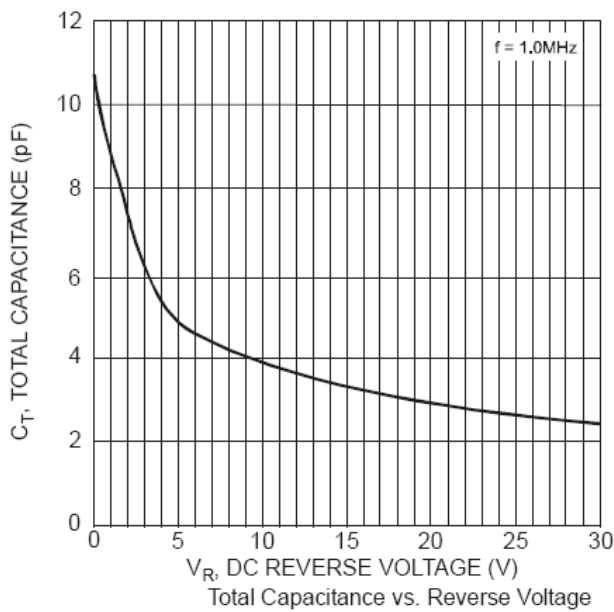
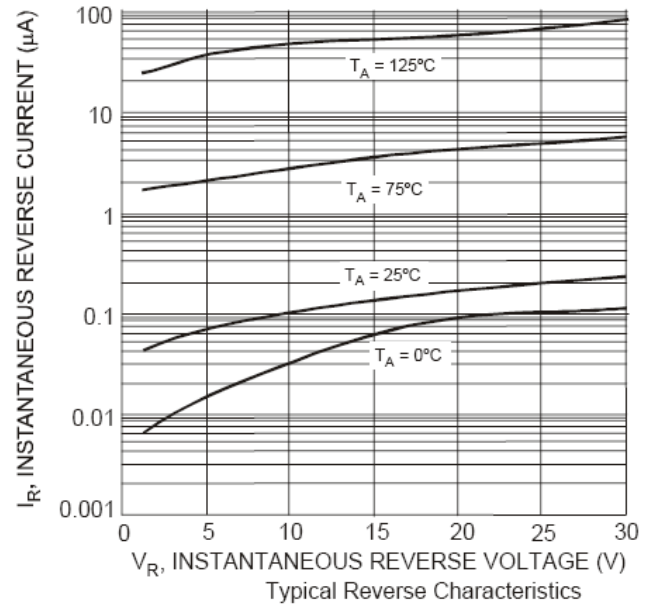
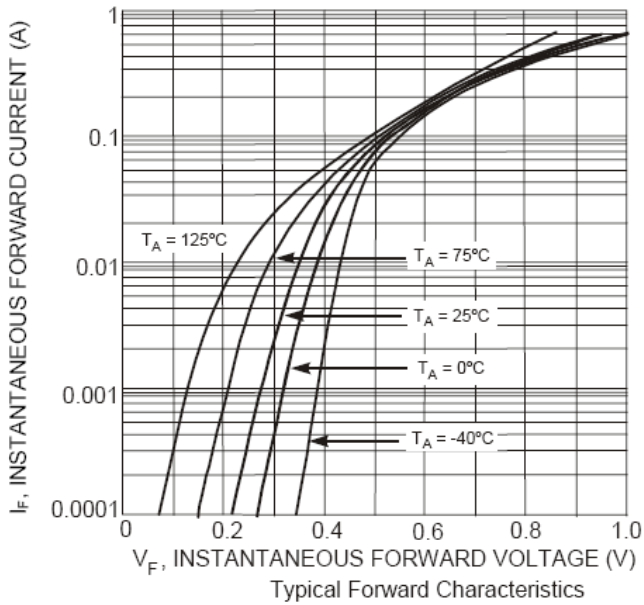
| 特性参数<br>CHARACTERISTIC                                 | 符号<br>SYMBOL    | 额定值<br>RATING | 单位<br>UNIT                  |
|--------------------------------------------------------|-----------------|---------------|-----------------------------|
| 反向电压<br>Reverse Voltage                                | $V_R$           | 30            | V                           |
| 平均整流输出电流<br>Average Rectified Output Current           | $I_O$           | 200           | mA                          |
| 正向不重复浪涌电流<br>Non-Repetitive Peak Forward Surge Current | $I_{FSM}$       | 600           | mA                          |
| 耗散功率<br>Power Dissipation                              | $P_D$           | 200           | mW                          |
| 热阻<br>Thermal Resistance Junction to Ambient           | $R_{\theta JA}$ | 625           | $^{\circ}\text{C}/\text{W}$ |
| 结温<br>Junction Temperature                             | $T_J$           | 150           | $^{\circ}\text{C}$          |

**■ 电特性 ELECTRICAL CHARACTERISTICS**

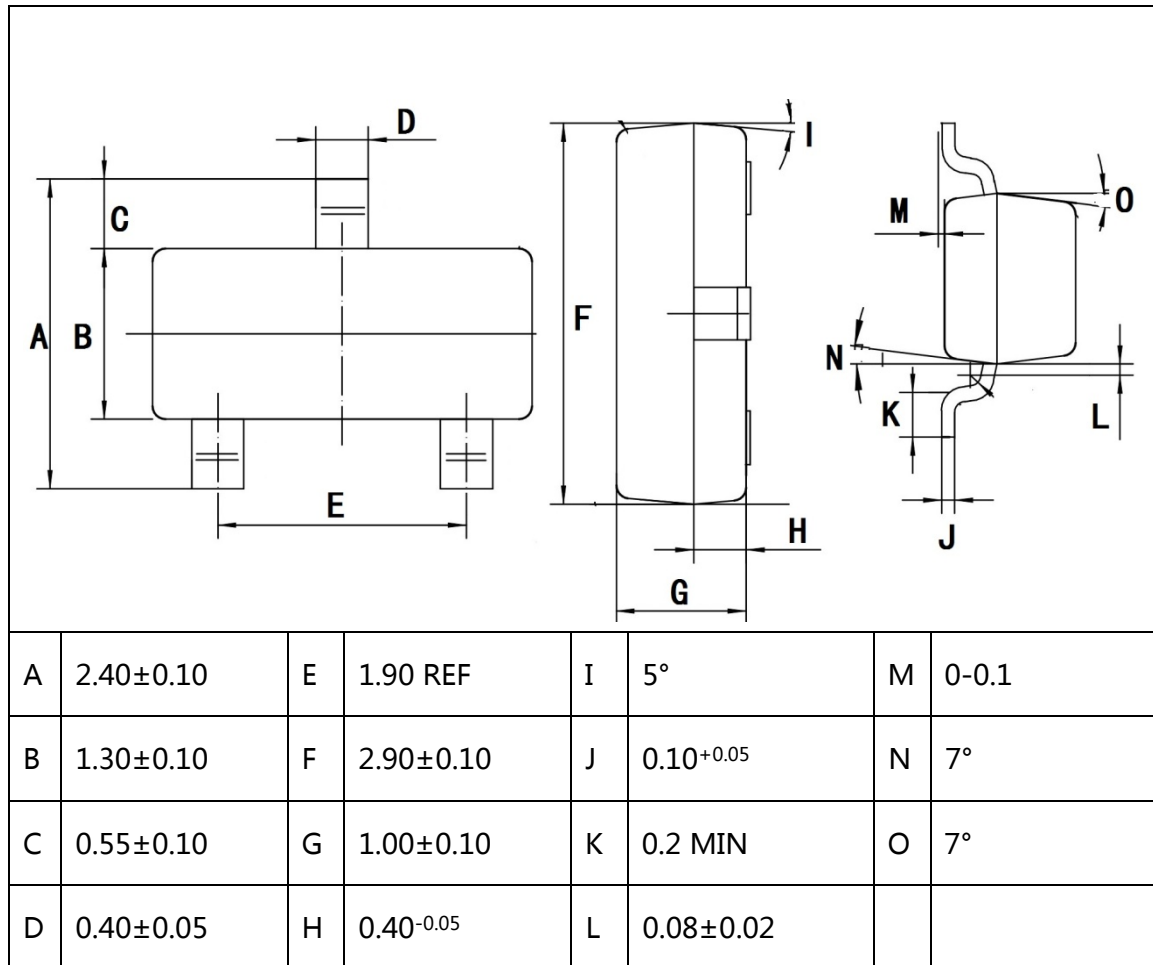
( $T_A=25^{\circ}\text{C}$  unless otherwise noted如无特殊说明，温度为  $25^{\circ}\text{C}$ )

| 特性参数<br>Characteristic              | 符号<br>Symbol | 测试条件<br>Test Conditions                                    | 最小值<br>Min. | 典型值<br>Typ. | 最大值<br>Max. | 单位<br>Unit.   |
|-------------------------------------|--------------|------------------------------------------------------------|-------------|-------------|-------------|---------------|
| 正向电压<br>Forward Voltage             | $V_{F1}$     | $I_F=0.1\text{mA}$                                         |             |             | 0.24        | V             |
|                                     | $V_{F2}$     | $I_F=1\text{mA}$                                           |             |             | 0.32        |               |
|                                     | $V_{F3}$     | $I_F=10\text{mA}$                                          |             |             | 0.4         |               |
|                                     | $V_{F4}$     | $I_F=30\text{mA}$                                          |             |             | 0.5         |               |
|                                     | $V_{F5}$     | $I_F=100\text{mA}$                                         |             |             | 1.0         |               |
| 反向击穿电压<br>Reverse Breakdown Voltage | $V_{(BR)}$   | $I_R = 100\mu\text{A}$                                     | 30          |             |             | V             |
| 反向漏电流<br>Reverse Leakage Current    | $I_R$        | $V_R = 25\text{V}$                                         |             |             | 2.0         | $\mu\text{A}$ |
| 二极管电容<br>Total Capacitance          | $C_T$        | $V_R = 1\text{V}, f=1\text{MHZ}$                           |             |             | 10          | pF            |
| 开关时间<br>Switching Time              | $t_{rr}$     | $I_F=I_R=10\text{mA}$<br>$I_{rr}=0.1 * I_R, R_L=100\Omega$ |             |             | 5           | ns            |

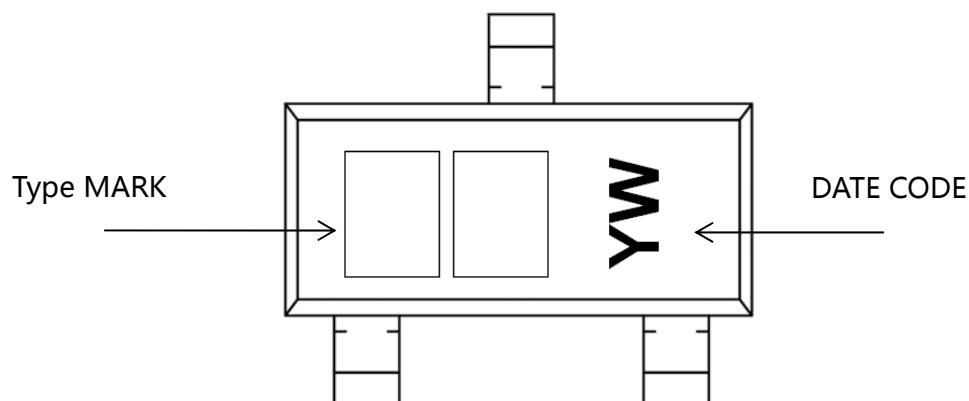
# **典型特性 TYPICAL CHARACTERISTICS**



# ■ 外形尺寸 DIMENSION



# ■ 打标 DEVICE MARKING



| TYPE | FHBAT54-ME | FHBAT54A-ME | FHBAT54C-ME | FHBAT54S-ME |
|------|------------|-------------|-------------|-------------|
| MARK | 1S         | 2S          | 3S          | 4S          |

## ■ 包装信息 PACKAGE INFORMATION

| 材料名称<br>Material Name | 颜色<br>Color  | 尺寸<br>Size    | 数量<br>Quantity                                 | 备注<br>Note                                          |
|-----------------------|--------------|---------------|------------------------------------------------|-----------------------------------------------------|
| 卷盘<br>Reel            | 蓝色<br>Blue   | 7 " *8mm      | 3K/Reel                                        |                                                     |
| 内盒<br>Inner Case      | 黄色<br>Yellow | 185*185*140mm | 30K/盒 ( 10 盘/盒 )<br>30K/Case ( 10 Reel/ Case ) | OHO2                                                |
| 外箱<br>Outer Box       | 黄色<br>Yellow | 460*400*210mm | 180K/箱 ( 6 盒/箱 )<br>180K/Box ( 6 Case/Box )    | OXO2                                                |
| 标签<br>Label           | 白色<br>White  | 68*40mm       | —                                              | 贴卷盘、内盒、外箱<br>Label on reel、inner case、<br>outer box |