

## SMC Schottky Barrier Rectifier Diode 肖特基势垒整流二极管

### ■Features 特点

Low forward voltage drop 低正向压降

High current capability 高电流能力

Surface mount device 表面贴装器件

Case 封装:SMC(DO-214AB)



### ■Maximum Rating 最大额定值

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

| Characteristic 特性参数              | Symbol 符号       | SK 82C    | SK 83C | SK 84C | SK 85C | SK 86C | SK 88C | SK 89C | SK 810C | Unit 单位                     |
|----------------------------------|-----------------|-----------|--------|--------|--------|--------|--------|--------|---------|-----------------------------|
| Marking 印字                       |                 | SK82      | SK83   | SK84   | SK85   | SK86   | SK88   | SK89   | SK810   |                             |
| Peak Reverse Voltage 反向峰值电压      | $V_{RRM}$       | 20        | 30     | 40     | 50     | 60     | 80     | 90     | 100     | V                           |
| DC Reverse Voltage 直流反向电压        | $V_R$           | 20        | 30     | 40     | 50     | 60     | 80     | 90     | 100     | V                           |
| RMS Reverse Voltage 反向电压均方根值     | $V_{R(RMS)}$    | 14        | 21     | 28     | 35     | 42     | 56     | 63     | 70      | V                           |
| Forward Rectified Current 正向整流电流 | $I_F$           | 8         |        |        |        |        |        |        |         | A                           |
| Peak Surge Current 峰值浪涌电流        | $I_{FSM}$       | 175       |        |        |        |        |        |        |         | A                           |
| Thermal Resistance J-L 结到管脚热阻    | $R_{\theta JL}$ | 10        |        |        |        |        |        |        |         | $^{\circ}\text{C}/\text{W}$ |
| Junction Temperature 结温          | $T_J$           | 150       |        |        |        |        |        |        |         | $^{\circ}\text{C}$          |
| Storage Temperature 储藏温度         | $T_{stg}$       | -65to+150 |        |        |        |        |        |        |         | $^{\circ}\text{C}$          |

### ■Electrical Characteristics 电特性

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

| Characteristic 特性参数     | Symbol 符号                                            | SK82C-SK84C | SK85C-SK86C | SK88C-SK810C | Unit 单位 | Condition 条件                         |
|-------------------------|------------------------------------------------------|-------------|-------------|--------------|---------|--------------------------------------|
| Forward Voltage 正向电压    | $V_F$                                                | 0.55        | 0.70        | 0.85         | V       | $I_F=8\text{A}$                      |
| Reverse Current 反向电流    | $I_R(25^{\circ}\text{C})$<br>$(100^{\circ}\text{C})$ | 0.1<br>5    |             | 0.02<br>2    | mA      | $V_R=V_{RRM}$                        |
| Diode Capacitance 二极管电容 | $C_D$                                                | 380         |             |              | pF      | $V_R=4\text{V}$ ,<br>$f=1\text{MHz}$ |

■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

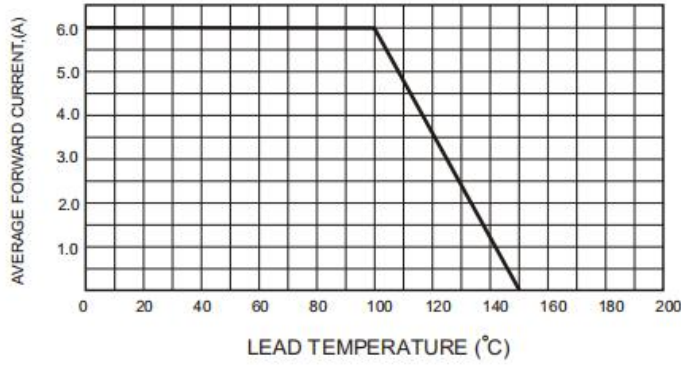


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

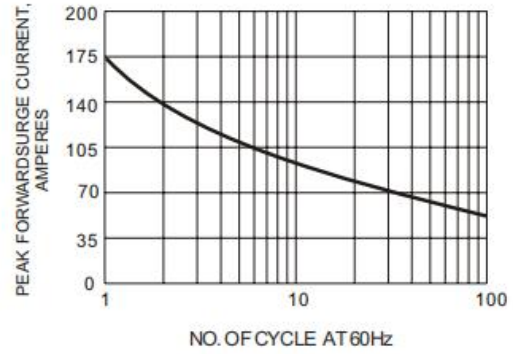


FIG.3-TYPICAL FORWARD CHARACTERISTICS

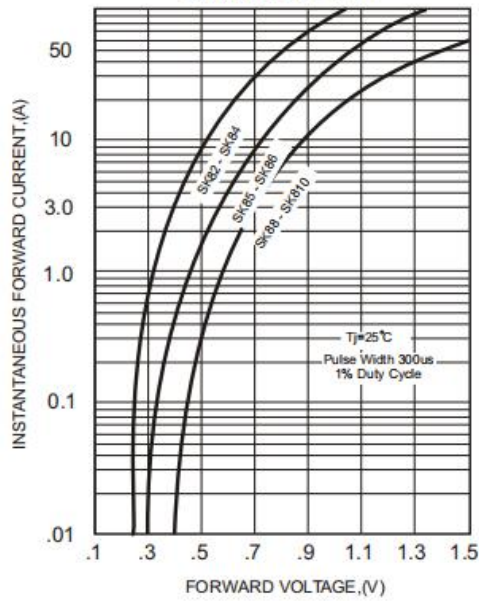
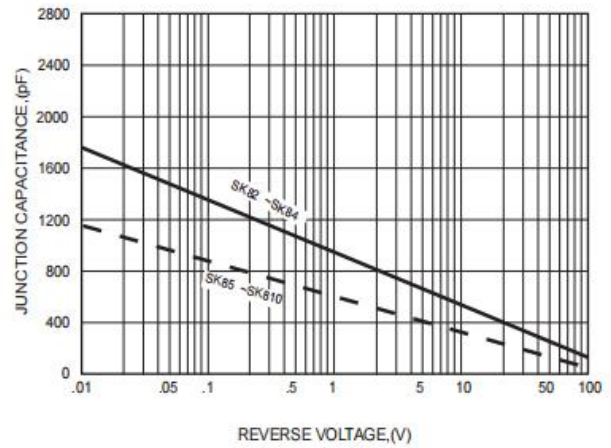
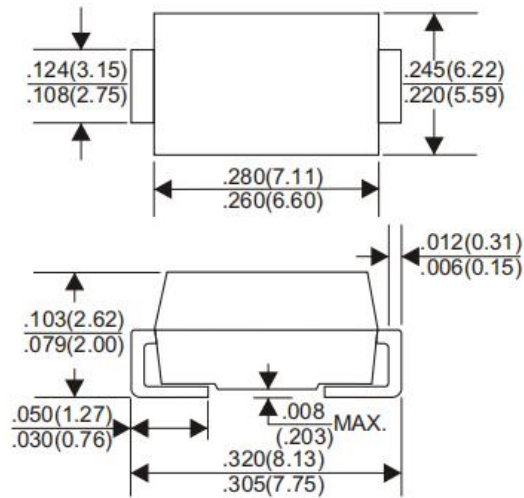


FIG.4-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸

**DO-214AB(SMC)**



Dimensions in inches and (millimeters)