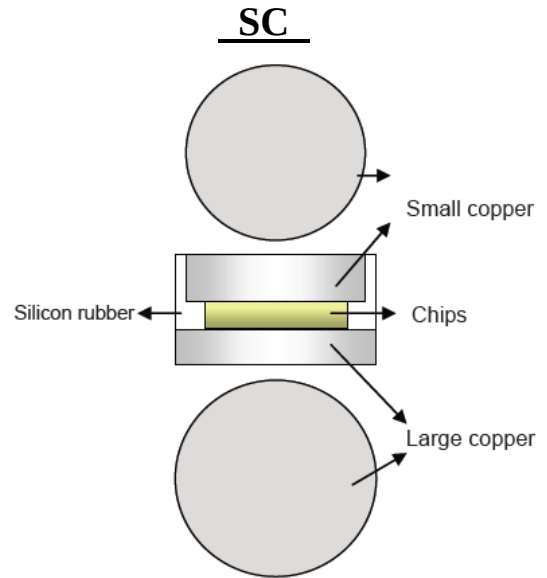


### 特征 FEATURES

- .大电流承受能力.High current capability
- .正向压降低.Low forward voltage drop
- .低漏电. Low leakage current
- .高浪涌承受能力.High surge current capability

### 机械数据 MECHANICAL DATA

- . 小铜粒:  $\varnothing 0.258(6.55) \times 0.0394(1.0)$ 厚度  
Small copper:  $\varnothing 0.258(6.55) \times 0.0394(1.0)$ Thick
- . 大铜粒:  $\varnothing 0.284(7.22) \times 0.0295(0.75)$ 厚度  
Large copper:  $\varnothing 0.284(7.22) \times 0.0295(0.75)$ Thick
- . 外观信息:  $\varnothing 0.284(7.22) \times 0.0866(2.2)$ 厚度  
Outline information:  $\varnothing 0.284(7.22) \times 0.0866(2.2)$ Thick
- . 极 性: 大铜粒端为阴极。  
Polarity: Large copper cathode



Dimension in inches(millimeters)

**极限值和电参数** TA= 25℃除非另有规定. 单相,正半弦波,60HZ,阻抗或电感负载.为电容装载,减少电流的 20%

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ Ambient temp. Unless otherwise specified.Single phase, half sine wave, 60HZ,resistive or inductive load.  
For capacitive load, derate current by 20%

|                                                                                                                      | SYMBOL   | SC          |     |     |     |     |     |      | UNITS |
|----------------------------------------------------------------------------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|------|-------|
|                                                                                                                      |          | 50A         | 50B | 50D | 50G | 50J | 50K | 50M  |       |
| 最大峰值反向电压<br>Maximum Current Peak Reverse Voltage                                                                     | VRRM     | 50          | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| 最大反向有效电压<br>Maximum RMS Voltage                                                                                      | VRMS     | 35          | 70  | 140 | 280 | 420 | 560 | 700  | Volts |
| 最大直流阻断电压<br>Maximum DC Blocking Voltage                                                                              | VDC      | 50          | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| 最大正向平均整流电流 $T_L=100^\circ\text{C}$<br>Maximum Average Forward Rectified Current                                      | I(AV)    | 50          |     |     |     |     |     |      | Amps  |
| 正向峰值浪涌电流<br>Peak Forward Surge Current 8.3ms Single Sine-wave on Rated Load (JEDEC Method)                           | IFSM     | 500         |     |     |     |     |     |      | Amps  |
| 50A 直流电时最大正向瞬间电压降<br>Maximum Instantaneous Forward Voltage Drop at 50A DC                                            | VF       | 1.0         |     |     |     |     |     |      | Volts |
| 最大反向漏电流<br>Maximum DC Reverse Current $T_A=25^\circ\text{C}$<br>at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$ | IR       | 5<br>250    |     |     |     |     |     |      | uA    |
| 典型结电容<br>Typical Junction Capacitance (NOTE 1)                                                                       | CJ       | 300         |     |     |     |     |     |      | pF    |
| 工作温度存储温度<br>Operating AND Storage Temperature Range                                                                  | TSTG/ TJ | -55 to +150 |     |     |     |     |     |      | ℃     |

NOTE: 1.Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

# RATING AND CHARACTERISTIC CURVES SC50A THRU SC50M

FIG. 1 –最大正向平均电流降额

FIG. 1 –MAXIMUM AVERAGE FORWARD CURRENT DERATING

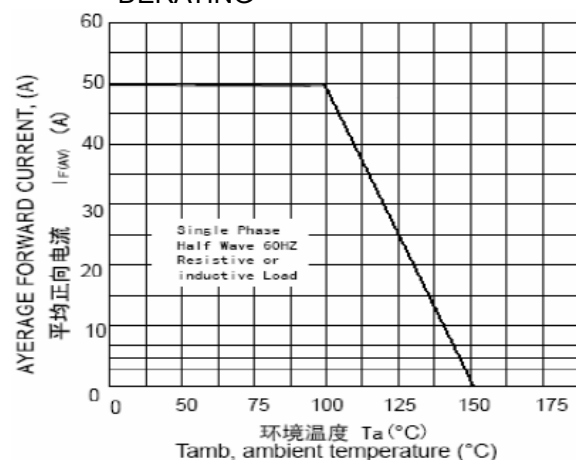


FIG. 2 –最大非重复正向浪涌电流

FIG. 2 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

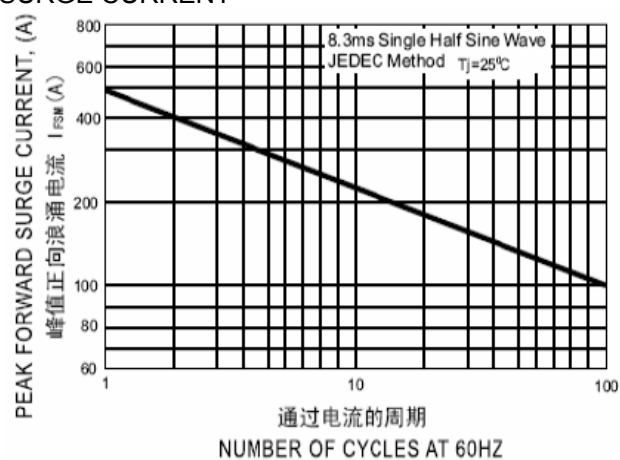


FIG. 3 –反向特性曲线(典型)

FIG. 3 –TYPICAL REVERSE CHARACTERISTICS

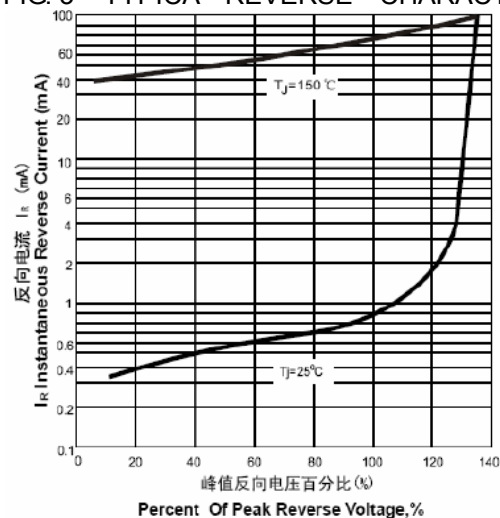


FIG. 4 –正向特性曲线(典型)

FIG. 4 –TYPICAL FORWARD CHARACTERISTICS

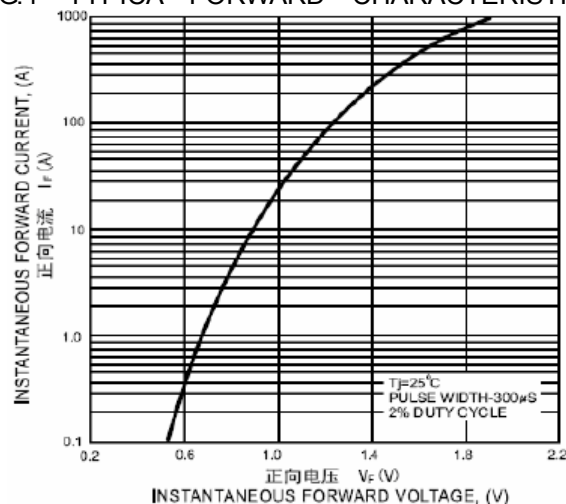


FIG.5 –结电容特性曲线

FIG.5 –TYPICAL JUNCTION CAPACITANCE

