特性：FEATURES
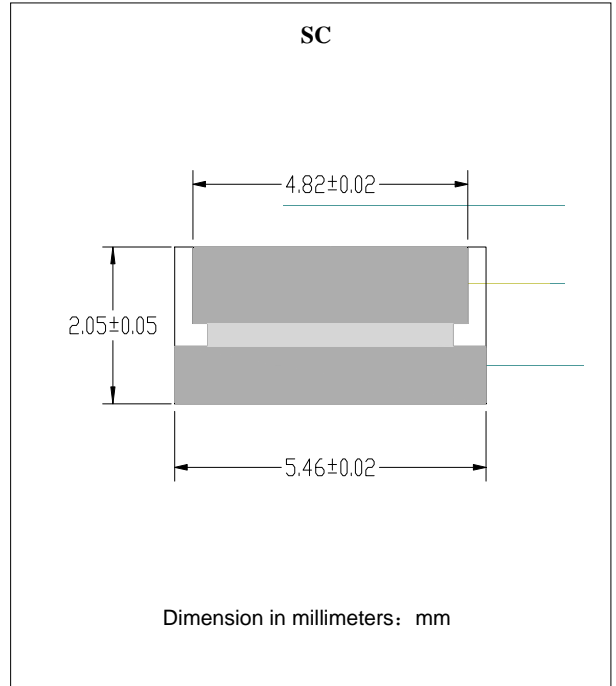
◆ 大电流承受能力.High current capability

◆ 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

机械性能：MECHANICAL DATA

◆ 小铜粒：Φ0.190(4.82) x 0.0394(1.0)厚度

Small copper：Φ0.190 (4.82) x 0.0394(1.0)Thick

◆ 大铜粒：Φ0.215(5.46) x 0.0295(0.75)厚度

Large copper：Φ0.215(5.46) x 0.0295(0.75)Thick

◆ 外观信息：Φ0.215(5.46) x 0.08 (2.05±0.05)厚度

Outline information：Φ0.215(5.46) x 0.08 (2.05±0.05)Thick

◆ 极 性：大铜粒端为阴极。

Polarity：Large copper cathode

SC

4.82±0.02

2.05±0.05

5.46±0.02

Dimension in millimeters：mm

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.

型 号 TYPE	符 号	SC25A	SC25B	SC25D	SC25G	SC25J	SC25K	SC25M	单 位
最大峰值反向电压 Maximum Current Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大反向有效值电压 Working Peak Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
最大直流截止电压 Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
最大正向平均整流电流Ta=125℃， Maximum Average Forward Rectified Current	$I_{F(AV)}$	25							A
峰值正向浪涌电流 Peak Forward Surge Current 8.3ms Single Sine-wave on Rated Load (JEDEC Method)	I_{FSM}	300							A
最大瞬间正向压降@100A Maximum Instantaneous Forward Voltage Drop at 100A DC	V_F	1.10							V
最大反向直流电流 Maximum DC Reverse Current Ta = 25℃ at Rated DCBlocking Voltage Ta = 150℃	I_R	1.0 200							μA
典型结电容 Typical Junction Capacitance (NOTE 1)	CJ	300							pF
工作及储存温度范围 Operating AND Storage Temperature Range	T_J,T_{STG}	-55～+195							℃

注 释 ：NOTE 在 1MHz 下测量，施加 4.0V D.C 的反向电压. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

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FIG. 1 –最大正向平均电流降额

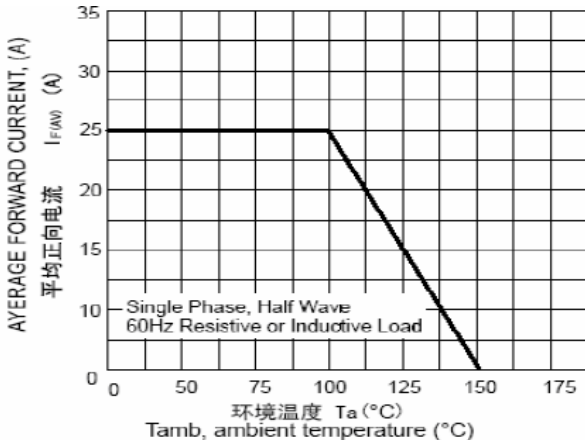FIG. 1 –MAXIMUM AVERAGE FORWARD CURRENT DERATING

FIG. 2 –最大非重复正向浪涌电流

FIG. 2 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT
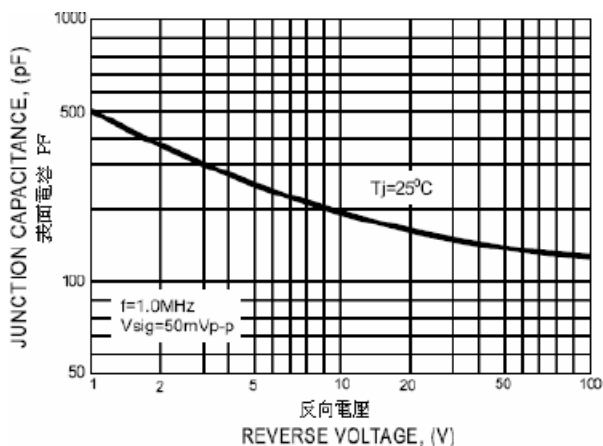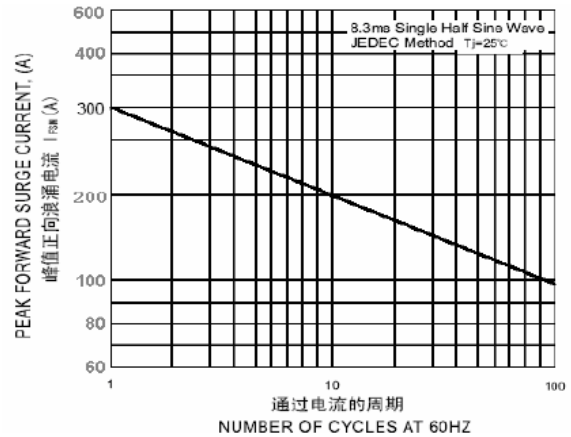
FIG. 3 –反向特性曲线(典型)

FIG. 3 – TYPICA REVERSE CHARACTERISTICS

FIG. 4–正向特性曲线(典型)

FIG.4 – TYPICA FORWARD CHARACTERISTICS

FIG.5–结电容特性曲线

FIG.5–TYPICAL JUNCTION CAPACITANCE

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