



20A CELL SERIES

硅整流器 Silicon Rectifier

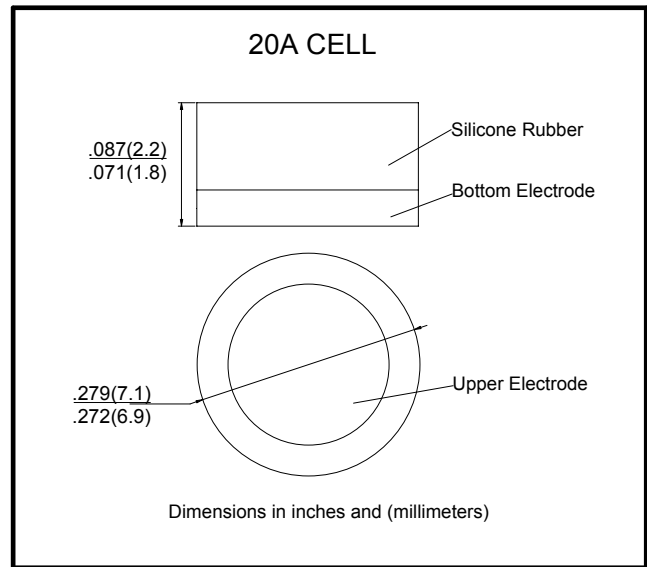
■特征 Features

- I_o 20A
- V_{RRM} 100V~1000V
- 电极表面高可焊性
Solderable electrode surface
- 耐正向浪涌电流能力高
High surge forward current capability

■用途 Applications

- 作一般单相整流用
General purpose 1 phase rectifier applications

■外形尺寸和印记 Outline Dimensions and Mark



■极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)

| 参数名称 Item | 符号 Symbol | 单位 Unit | 条件 Conditions | 20A | | | | | |
|---|--------------|----------------------|--|-----------|------|------|------|------|-------|
| | | | | 100V | 200V | 400V | 600V | 800V | 1000V |
| 反向重复峰值电压 Repetitive Peak Reverse Voltage | V_{RRM} | V | | 100 | 200 | 400 | 600 | 800 | 1000 |
| 平均整流输出电流 Average Rectified Output Current | I_o | A | 60Hz 正弦波, 电阻负载, $T_a=50^\circ\text{C}$ 60Hz sine wave, R- load, $T_a=50^\circ\text{C}$ | 20 | | | | | |
| 正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current | I_{FSM} | A | 60Hz正弦波, 一个周期, $T_a=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$ | 500 | | | | | |
| 正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time | I^2t | A^2s | 1ms≤t<8.3ms $T_j=25^\circ\text{C}$, 单个二极管 1ms≤t<8.3ms $T_j=25^\circ\text{C}$, Rating of per diode | 1042 | | | | | |
| 存储温度 Storage Temperature | T_{stg} | $^\circ\text{C}$ | | -55 ~+150 | | | | | |
| 结温 Junction Temperature | T_j | $^\circ\text{C}$ | | -55 ~+125 | | | | | |

■电特性（ $T_a=25^\circ\text{C}$ 除非另有规定）

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| 参数名称 Item | 符号 Symbol | 单位 Unit | 测试条件 Test Condition | 最大值 Max | |
|--------------------------------|-----------------|---------------------------|---|-------------------------|-----|
| 正向峰值电压 Peak Forward Voltage | V_{FM} | V | $I_{FM}=20\text{A}$, 脉冲测试, 单个二极管的额定值 $I_{FM}=20\text{A}$, Pulse measurement, Rating of per diode | 1.1 | |
| 反向峰值电流 Peak Reverse Current | I_{RRM1} | μA | $V_{RM}=V_{RRM}$ | $T_a=25^\circ\text{C}$ | 5 |
| | I_{RRM2} | | | $T_a=125^\circ\text{C}$ | 500 |
| 热阻 Thermal Resistance | $R_{\theta JA}$ | $^\circ\text{C}/\text{W}$ | 结和环境之间 Between junction and ambient | 3.8 | |

■特性曲线（典型） Characteristics(Typical)

图1: I_o - T_a 曲线
FIG1: I_o - T_a Curve

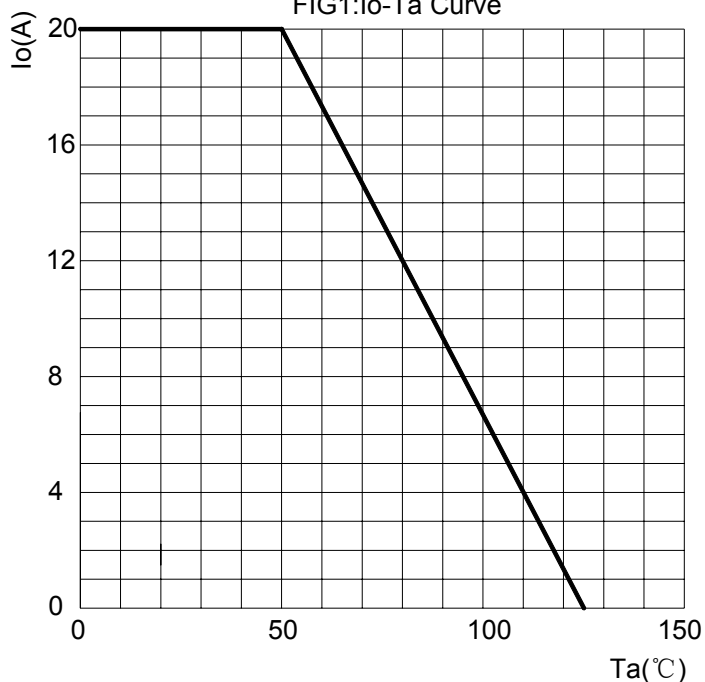


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capadility

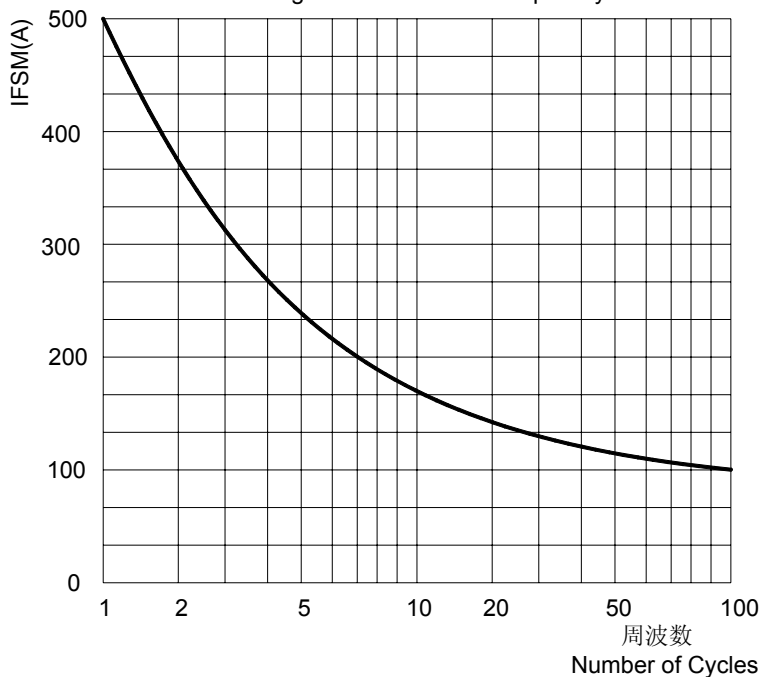


图3: 正向电压曲线
FIG3: Instantaneous Forward Voltage

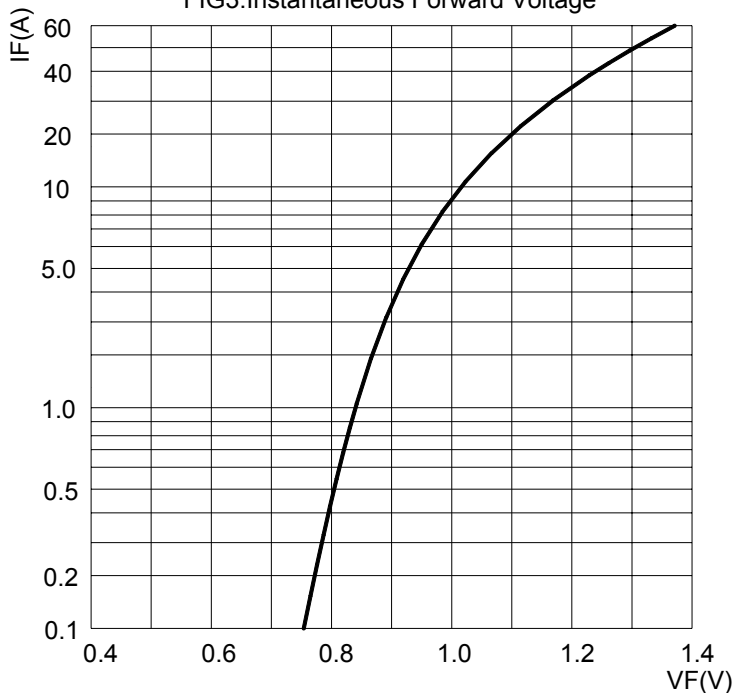


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics

