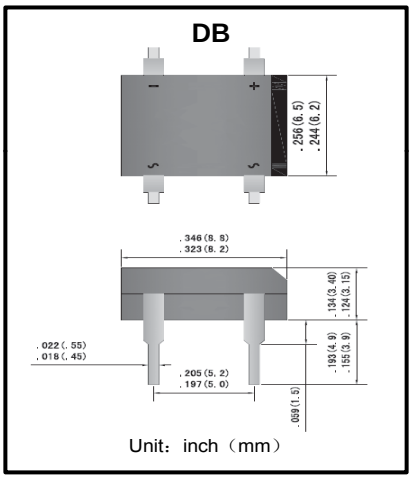
SIYU®

# DB101 ..... DB107

## 塑封硅整流桥堆
反向电压 50---1000V
正向电流 1.0 A

## Single-phase Silicon Bridge Rectifier
Reverse Voltage 50 to 1000V
Forward Current 1.0 A



Unit：inch（mm）

## 特征 Features

- 高电流浪涌承受能力 High surge current Capability
- 高温焊接保证High tempererature soldering guaranteed:
  260℃/10 秒 260℃/10 seconds
- 引线和管体皆符合RoHS标准。
  Lead and body according with RoHS standard

## 机械数据 Mechanical Data

·封装: 塑料封装 Case: Molded Plastic
·极性: 标记模压或印于本体 Polarity: Symbols molded or marked on body
·安装位置: 任意 Mounting Position: Any

## 极限值和温度特性 TA = 25℃ 除非另有规定。
## Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| | 符号 Symbols | DB101 | DB102 | DB103 | DB104 | DB105 | DB106 | DB107 | 单位 Unit |
|---|---|---|---|---|---|---|---|---|---|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 最大均方根电压 Maximum RMS voltage | $V_{RMS}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 最大正向平均整流电流 TC =100℃ Maximum average forward rectified current | $I_{F(AV)}$ | 1.0 | | | | | | | A |
| 峰值正向浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | $I_{FSM}$ | 30 | | | | | | | A |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 40 | | | | | | | ℃/W |
| 工作结温和存储温度 Operating junction and storage temperature range | Tj, TSTG | -55--- +150 | | | | | | | ℃ |

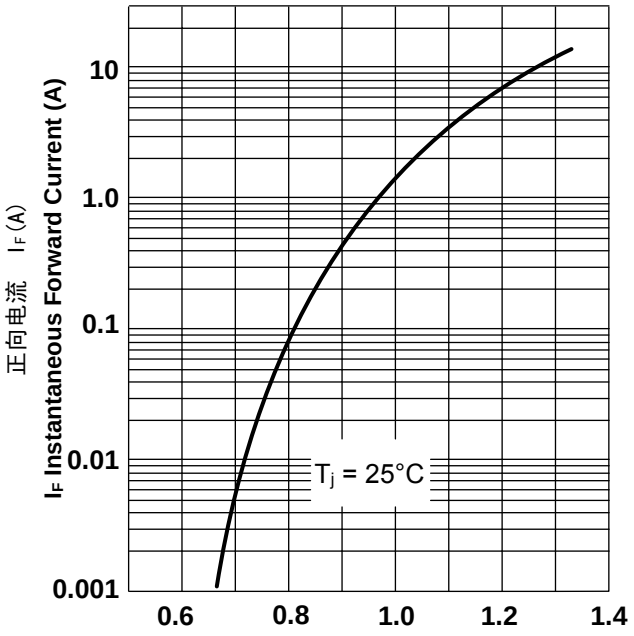
## 电特性 TA = 25℃ 除非另有规定。
## Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| | 符号 Symbols | DB101 | DB102 | DB103 | DB104 | DB105 | DB106 | DB107 | 单位 Unit |
|---|---|---|---|---|---|---|---|---|---|
| 最大正向电压 $I_F$ = 1.0A Maximum forward voltage | $V_F$ | 1.1 | | | | | | | V |
| 最大反向电流 TA= 25℃ TA = 125℃ Maximum reverse current | $I_R$ | 10<br>500 | | | | | | | μA |
| 典型结电容 $V_R$ = 4.0V, f = 1MHz Type junction capacitance | Cj | 40 | | | | | | | pF |

# 特性曲线 Characteristic Curves

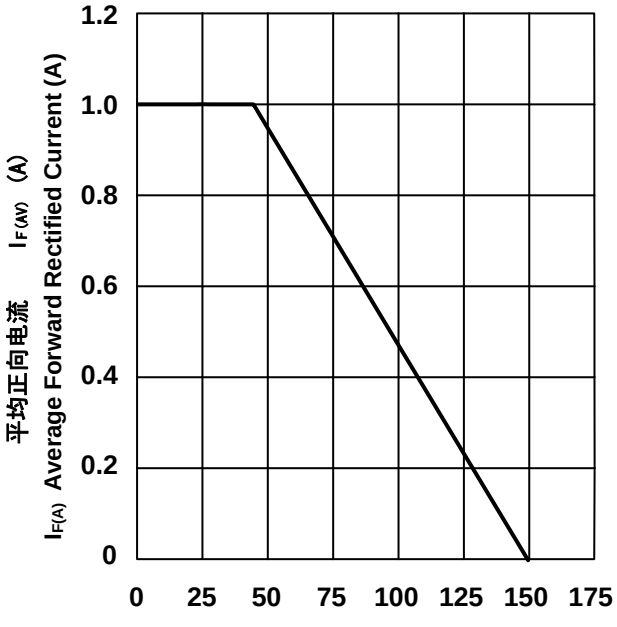
正向特性曲线（典型值）

TYPICAL FORWARD CHARACTERISTIC




正向电流降额曲线

FORWARD CURRENT DERATING CURVE




浪涌特性曲线（最大值）

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT

