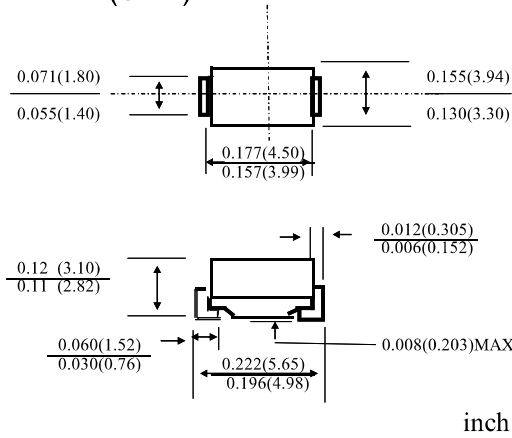


■外形尺寸和印记 Outline Dimensions and Mark  
DO - 214AA(SMB)



inch ( mm )

■特征 Features

- $I_o$  2.0A
- $V_{RRM}$  50V-600V
- 耐正向浪涌电流能力高  
High surge current capability
- 封装: 模压塑料  
Cases: Molded plastic

■用途 Applications

- 整流用 Rectifier

■极限值 (绝对最大额定值)

Limiting Values (Absolute Maximum Rating)

| 参数名称<br>Item  | 符号<br>Symbol | 单位<br>Unit       | 测试条件<br>Test Conditions  | ES2        |     |     |     |     |     |     |     |
|---|--------------|------------------|--|------------|-----|-----|-----|-----|-----|-----|-----|
|   |              |                  |  | A          | B   | C   | D   | E   | G   | H   | J   |
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage           | $V_{RRM}$    | V                |  | 50         | 100 | 150 | 200 | 300 | 400 | 500 | 600 |
| 正向平均电流<br>Average Forward Current                     | $I_{F(AV)}$  | A                | 正弦半波 60Hz, 电阻负载,<br>$T_L=110^\circ\text{C}$<br>60Hz Half-sine wave, Resistance load, $T_L=110^\circ\text{C}$ | 2.0        |     |     |     |     |     |     |     |
| 正向 (不重复) 浪涌电流<br>Surge(Non-repetitive)Forward Current | $I_{FSM}$    | A                | 正弦半波 60Hz, 一个周期, $T_a=25^\circ\text{C}$<br>60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$              | 50         |     |     |     |     |     |     |     |
| 结温<br>Junction Temperature                            | $T_J$        | $^\circ\text{C}$ |  | -55~+125   |     |     |     |     |     |     |     |
| 储存温度<br>Storage Temperature                           | $T_{STG}$    | $^\circ\text{C}$ |  | -55 ~ +150 |     |     |     |     |     |     |     |

■电特性 (Ta=25°C 除非另有规定)

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

| 参数名称<br>Item                              | 符号<br>Symbol     | 单位<br>Unit         | 测试条件<br>Test Condition                                  | ES2                     |                  |   |     |     |     |   |   |  |
|---|------------------|--------------------|---|-------------------------|------------------|---|-----|-----|-----|---|---|--|
|   |                  |                    |   | A                       | B                | C | D   | E   | G   | H | J |  |
| 正向峰值电压<br>Peak Forward Voltage            | $V_F$            | V                  | $I_F=2.0\text{A}$                                       | 0.95                    |                  |   | 1.3 |     | 1.7 |   |   |  |
| 最大反向恢复时间<br>Maximum reverse recovery time | $t_{rr}$         | ns                 | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ | 35                      |                  |   |     |     |     |   |   |  |
| 反向漏电流<br>Peak Reverse Current             | $I_{RRM1}$       | $\mu\text{A}$      | $V_{RM}=V_{RRM}$  | $T_a=25^\circ\text{C}$  |                  |   |     | 5.0 |     |   |   |  |
|   | $I_{RRM2}$       |                    |   | $T_a=100^\circ\text{C}$ |                  |   |     | 350 |     |   |   |  |
| 热阻 (典型)<br>Thermal Resistance(Typical)    | $R_{\theta J-A}$ | $^\circ\text{C/W}$ | 结和环境之间<br>Between junction and ambient                  |                         | 75 <sup>1)</sup> |   |     |     |     |   |   |  |
|   | $R_{\theta J-L}$ |                    | 结和终端之间<br>Between junction and terminal                 |                         | 20 <sup>1)</sup> |   |     |     |     |   |   |  |

备注: Notes:

<sup>1)</sup> 热阻从结到环境及从结到引线, 在电路板的0.27" x 0.27" (7.0毫米 x 7.0毫米)铜垫片区

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

■ 特性曲线 (典型)

图1: 正向电流降额曲线  
FIG.1: FORWARD CURRENT DERATING CURVE

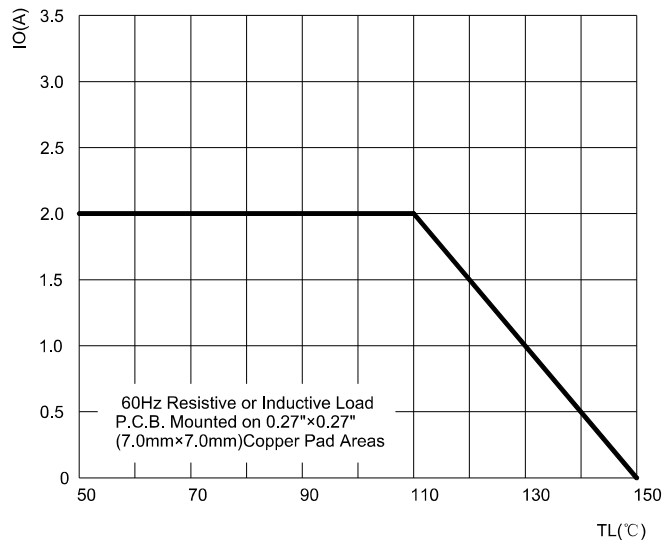


图2: 最大正向浪涌冲击耐受力  
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

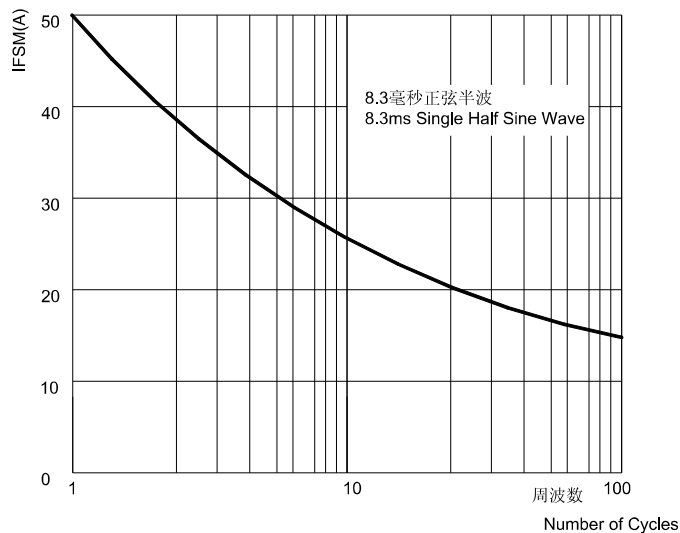


图3: 典型正向特性曲线  
FIG.3: TYPICAL FORWARD CHARACTERISTICS

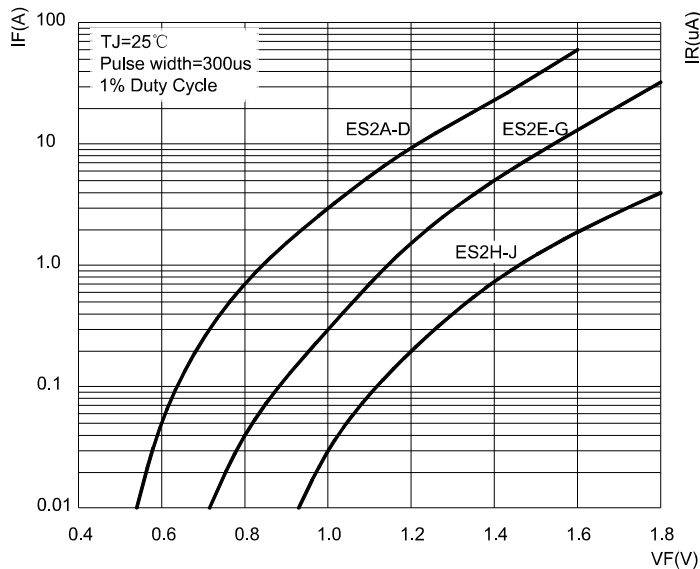


图4: 典型反向特性曲线  
FIG.4: TYPICAL REVERSE CHARACTERISTICS

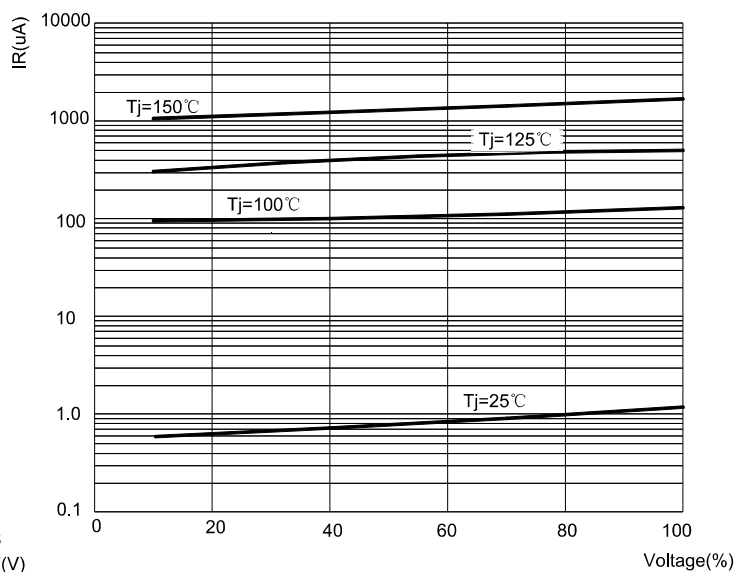


图5: 反向恢复时间试验电路及测试波形示意图  
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

