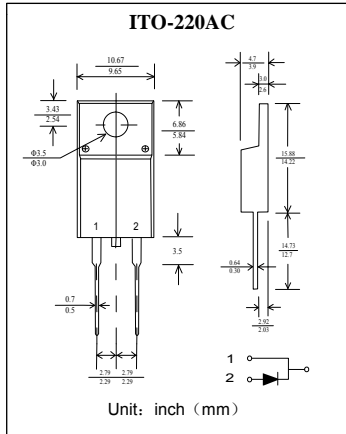


塑封超快速整流二极管
反向电压 100---600V
正向电流 5.0A

Plastic Ultra-Fast Recover Rectifier
Reverse Voltage 100 to 600 V
Forward Current 5.0 A



特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 低功耗高效率。Low Power Loss, High Efficiency
- 引线 and 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
- 安装扭矩: 推荐值 0.3牛*米 Mounting torque: Recommend 0.3 N*m

极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | 符号 Symbols | SFAF502G | SFAF504G | SFAF506G | SFAF508G | 单位 Unit |
|---|-----------------|------------|----------|----------|----------|------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 100 | 200 | 400 | 600 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 70 | 140 | 280 | 420 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 100 | 200 | 400 | 600 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | $I_{F(AV)}$ | 5.0 | | | | 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} | 125 | | | | A |
| 典型热阻 Typical thermal resistance | $R_{\theta JC}$ | 5.0 | | | | °C/W |
| 工作结温和存储温度 Operating junction and storage temperature range | T_j, T_{STG} | -55---+150 | | | | °C |

电特性 TA = 25°C 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | 符号 Symbols | SFAF502G | SFAF504G | SFAF506G | SFAF508G | 单位 Unit |
|--|---|-----------|----------|----------|----------|------------|
| 最大正向电压 Maximum forward voltage | $I_F = 5.0A$ V_F | 0.975 | | 1.30 | 1.70 | V |
| 最大反向电流 Maximum reverse current | $T_A = 25^\circ C$ $T_A = 125^\circ C$ I_R | 10 400 | | | | μA |
| 最大反向恢复时间 MAX. Reverse Recovery Time | $I_F = 0.5A$ $I_R = 1.0A$ $I_{REC} = 0.25A$ t_{rr} | 35 | | | | nS |

特性曲线 Characteristic Curves

