

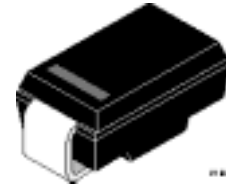


General Purpose Rectifier (FH1N4004)

普通整流二极管

Features 特征:

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge capability
- DO-214AC PACKAGE



Maximum Ratings & Thermal Characteristics * 最大额定值与热特性

Ratings at 25 °C ambient temperature unless otherwise specified.

| Symbol 符号 | Parameter 参数 | Value | Units |
|----------------|---|-------------|-------|
| $I_{F(AV)}$ | Maximum Average Forward Rectified Current 最大平均正向整流电流 | 1.0 | A |
| I_{FSM} | Peak Forward Surge Current 正向峰值浪涌电流 (8.3 ms single half-sine-wave superimposed on rated load) | 30 | A |
| V_{RRM} | Maximum Peak Repetitive Reverse Voltage 最大峰值反向电压 | 400 | V |
| V_{RMS} | Maximum RMS Voltage 最大 | 280 | V |
| V_{DC} | Maximum DC blocking Voltage 最大直流模块电压 | 400 | V |
| R_{JA} | Typical Thermal resistance (NOTE 1) 典型热阻 | 50 | /W |
| T_A | Maximum DC blocking Voltage Temperature 最大直流模块电压温度 | +150 | |
| T_J, T_{STG} | Operating Junction and Storage Temperature Range 结温与储存温度 | -65 to +150 | |

Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

| Symbol | Parameter | Value | Units |
|--------|--|-----------|---------|
| V_F | Maximum Instantaneous Forward Voltage 最大瞬间正向电压 at 1.0 A | 1.1 | V |
| I_R | Maximum DC Reverse Current 最大反向电流 $T_A=25$ °C At Rated DC blocking Voltage $T_A=100$ °C | 5.0 50 | μ A |
| C_J | Typical Junction capacitance 典型结容 at 4.0V, 1MHz | 15 | pF |

NOTES:

- (1) Thermal resistance from junction to ambient, P.C.B. mounted