

## 塑封快恢复整流二极管

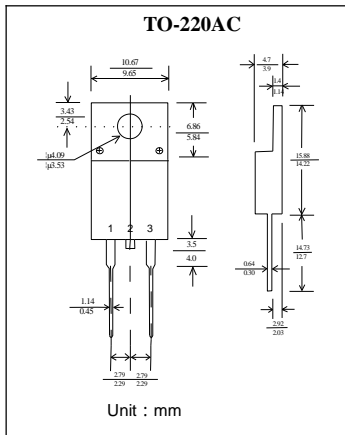
反向电压 400V

正向电流 8A

## Plastic Fast Recover Rectifier

Reverse Voltage 400V

Forward Current 8.0A



## 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

## 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 &amp; Thermal Characteristics Ratings at 25 ambient temperature unless otherwise specified.

	符号 Symbols	FR804	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	400	V
最大均方根电压 Maximum RMS voltage	$V_{RMS}$	280	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	400	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	8.0	A
峰值正向浪涌电流 8.3ms单一半正弦半波 Peak forward surge current 8.3 ms single half sine-wave	$I_{FSM}$	150	A
最大反向峰值电流 TA = 75 Maximum peak reverse current full cycle	$I_{R(AV)}$	30	mA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	3	/W
工作结温和存储温度 Operating junction and storage temperature range	$T_j, T_{STG}$	-55---+150	

电特性 TA = 25 除非另有规定。

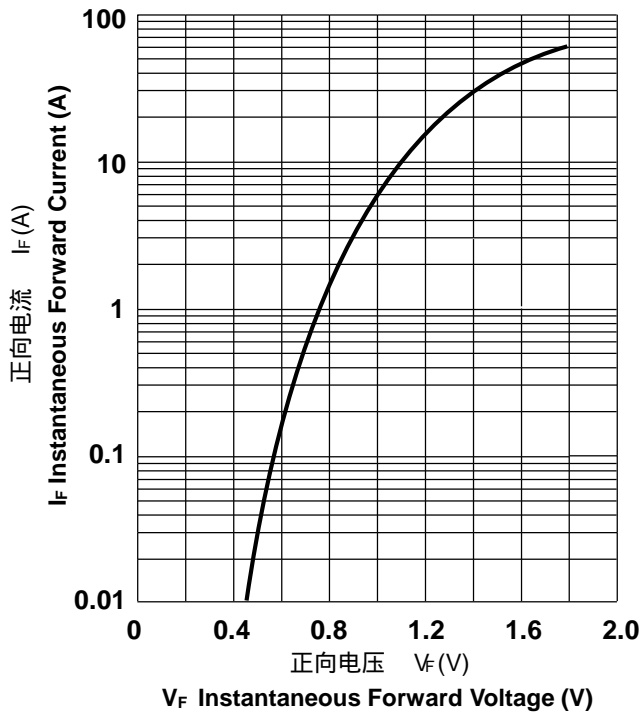
Electrical Characteristics Ratings at 25 ambient temperature unless otherwise specified.

	符号 Symbols	FR804	单位 Unit
最大正向电压 Maximum forward voltage $I_F = 8.0A, T_C = 25$	$V_F$	1.3	V
最大反向电流 Maximum reverse current TA = 25 TA = 100	$I_R$	10 150	mA
最大反向恢复时间 MAX. Reverse Recovery Time $I_F = 0.5A, I_R = 1.0A, I_{REC} = 0.25A$	$t_{rr}$	150	nS
典型结电容 Type junction capacitance $V_R = 4.0V, f = 1MHz$	$C_j$	50	pF

特性曲线 Characteristic Curves

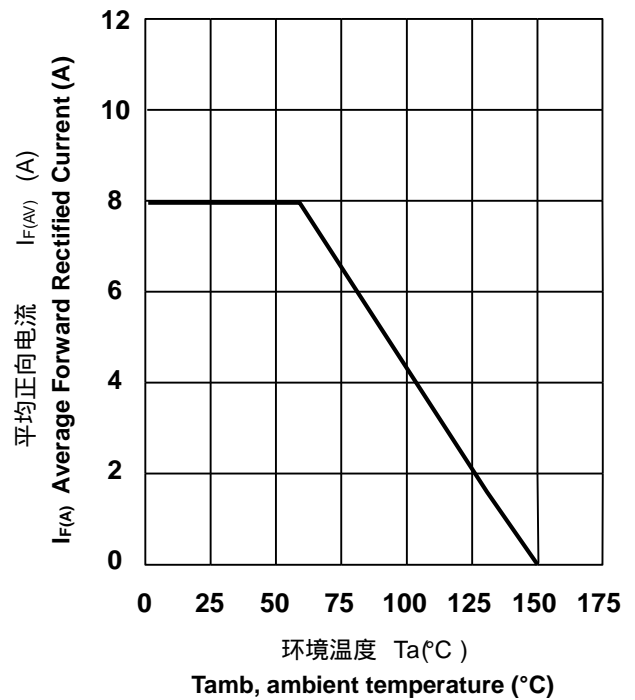
正向特性曲线 (典型值)

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

