SIYU®

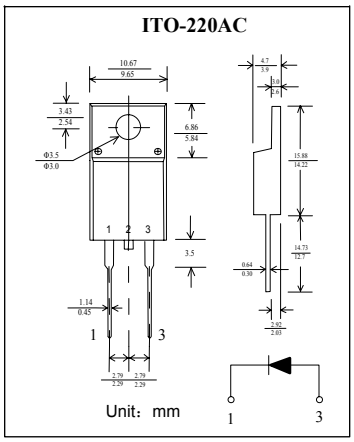
FFPF05U60S

塑封快速整流二极管

反向电压 600V
正向电流 5A

Plastic Fast Recover Rectifier

Reverse Voltage 600 V
Forward Current 5A



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	FFPF05U60S	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	600	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	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}	30	A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	5	℃/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。

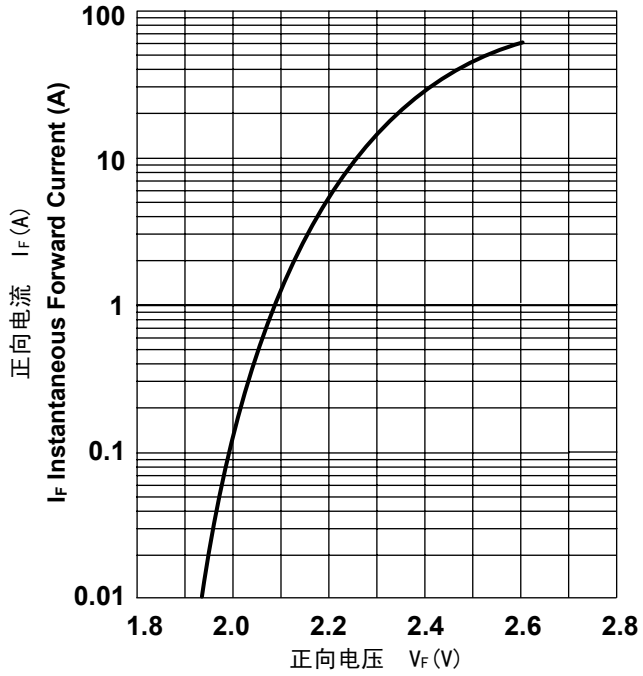
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

		符号 Symbols	FFPF05U60S	单位 Unit
最大正向电压 Maximum forward voltage	I_F =5.0A T_C= 25℃	V_F	2.3	V
最大反向电流 Maximum reverse current	TA= 25℃ TA=100℃	I_R	2.5 25	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	trr	80	nS

特性曲线 Characteristic Curves

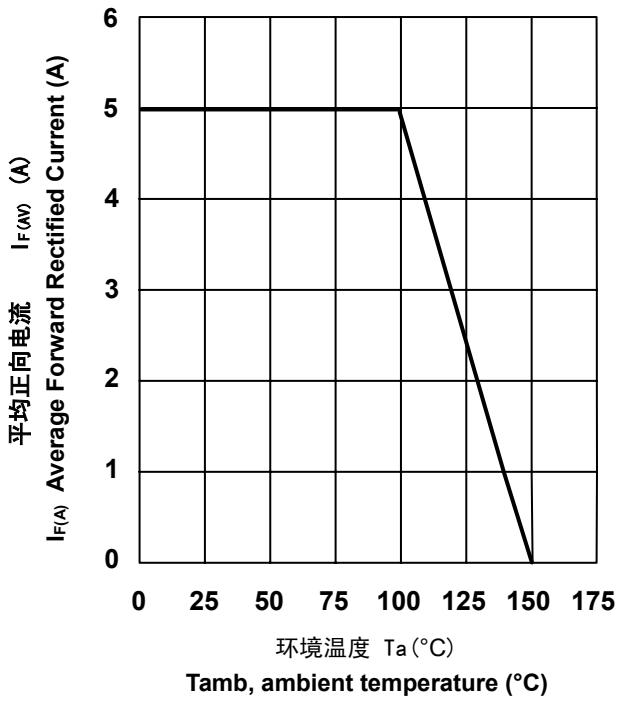
正向特性曲线（典型值）

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