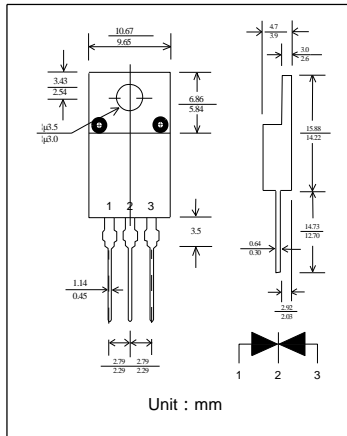


塑封超快速整流二极管

反向电压 200V
正向电流 5A

Plastic Ultra-Fast Recover Rectifier

Reverse Voltage 200 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

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
- 重量: 2.24 克 Weight: 2.24 Grams

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	FMX-12S	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	200	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	140	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	200	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}	35	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	$R_{\theta JA}$	4	$^{\circ}W$
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。

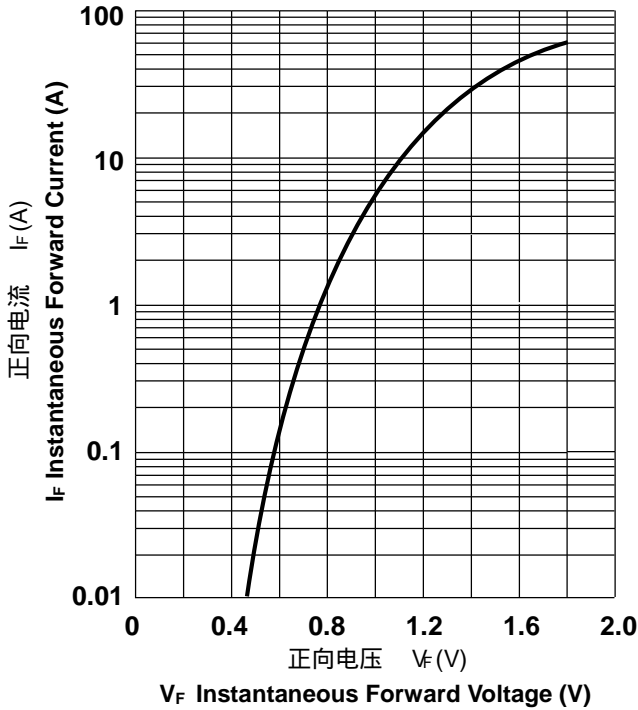
Electrical Characteristics Ratings at 25 ambient temperature unless otherwise specified.

	符号 Symbols	FMX-12S	单位 Unit
最大正向电压 Maximum forward voltage	$I_F = 2.5A$ V_F	0.98	V
最大反向电流 Maximum reverse current	TA= 25 TA=100 I_R	10 400	mA
最大反向恢复时间 MAX. Reverse Recovery Time	$I_F = 0.5A$ $I_R = 1.0A$ $I_{REC} = 0.25A$ trr	35	nS
典型结电容 Type junction capacitance	$V_R = 4.0V, f = 1MHz$ C_j	70	pF

特性曲线 Characteristic Curves

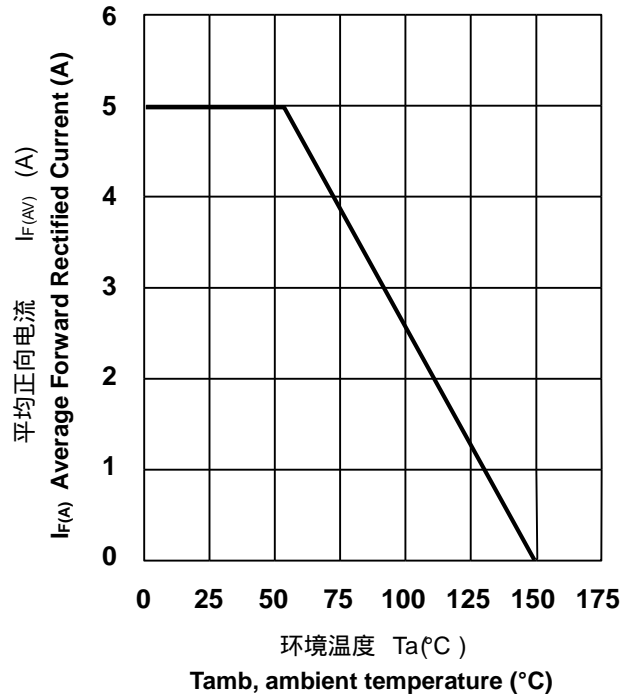
正向特性曲线 (典型值)

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

