SIYU®

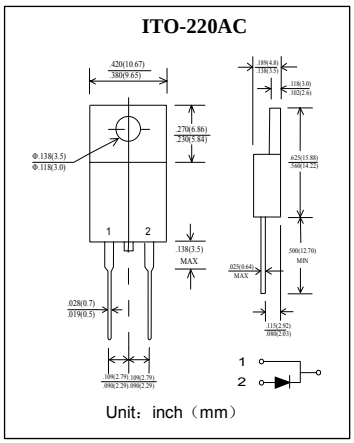
MBRF840 ..... MBRF8200

肖特基二极管

反向电压 40---200V
正向电流 8.0 A

Schottky Barrier Rectifier

Reverse Voltage 40 to 200 V
Forward Current 8.0 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
·安装扭距: 推荐值 0.3牛*米 Mounting torque：Recommend 0.3 N*m

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	MBRF 840	MBRF 845	MBRF 850	MBRF 860	MBRF 880	MBRF 8100	MBRF 8150	MBRF 8200	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	40	45	50	60	80	100	150	200	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	28	31.5	35	42	56	70	105	140	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	40	45	50	60	80	100	150	200	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单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	150								A
典型热阻 Typical thermal resistance	$R_{\theta JC}$	3.0								℃/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。

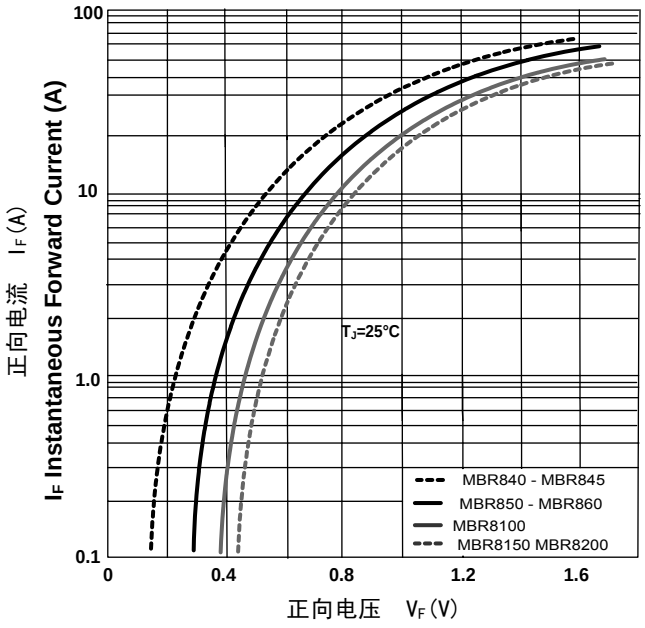
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

		符号 Symbols	MBRF 840	MBRF 845	MBRF 850	MBRF 860	MBRF 880	MBRF 8100	MBRF 8150	MBRF 8200	单位 Unit
最大正向电压 Maximum forward voltage	I_F = 8.0A	V_F	0.70		0.80		0.85		0.95	0.99	V
最大反向电流 Maximum reverse current	TA= 25℃ TA=100℃	I_R	0.5 15								mA
典型结电容 Type junction capacitance	V_R = 4.0V, f = 1MHz	Cj	250								pF

特性曲线 Characteristic Curves

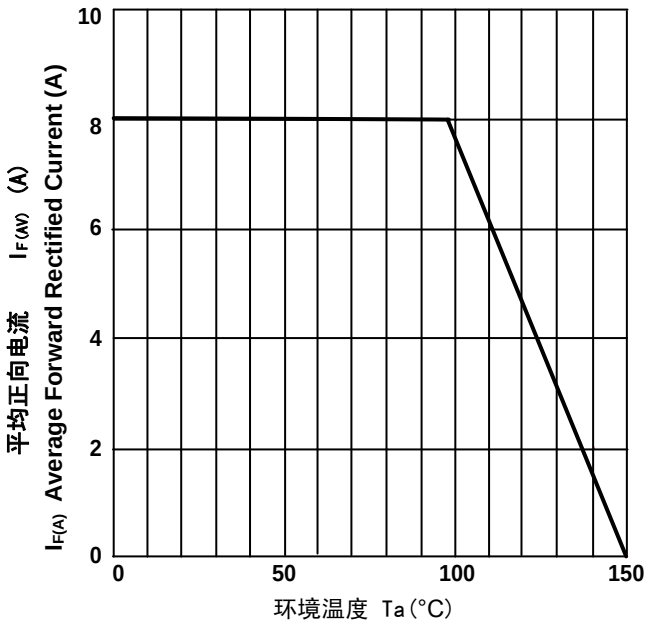
正向特性曲线（典型值）

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

