SIYU®

MBRF1040CT MBRF10200CT

肖特基二极管

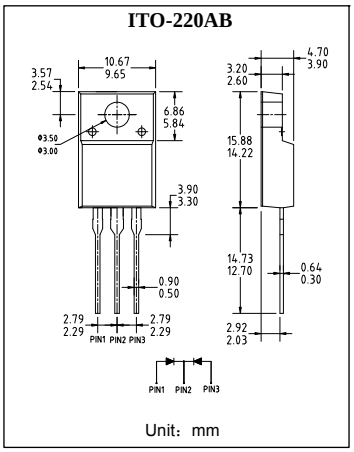
反向电压 40---200V

正向电流 10 A

Schottky Barrier Rectifier

Reverse Voltage 40 to 200 V

Forward Current 10A



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 1040CT	MBRF 1045CT	MBRF 1050CT	MBRF 1060CT	MBRF 10100CT	MBRF 10150CT	MBRF 10200CT	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	100	150	200	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	28	31	35	42	70	105	140	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	40	45	50	60	100	150	200	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	10							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}	125							A
典型热阻 Typical thermal resistance	$R_{\theta JC}$	3.5							℃/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.

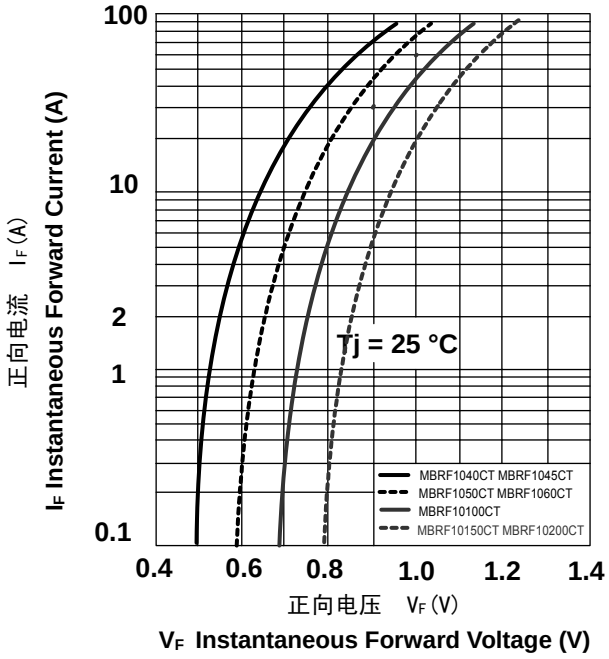
		符号 Symbols	MBRF 1040CT	MBRF 1045CT	MBRF 1050CT	MBRF 1060CT	MBRF 10100CT	MBRF 10150CT	MBRF 10200CT	单位 Unit
最大正向电压 Maximum forward voltage	I_F =5A	V_F	0.70		0.80		0.85	0.95	0.99	V
最大反向电流 Maximum reverse current	T_J= 25℃	I_R	0.5				0.5			mA
	T_J= 100℃		10				5			
典型结电容 Type junction capacitance	V_R = 4.0V, f = 1MHz	Cj	400				310			pF

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特性曲线 Characteristic Curves

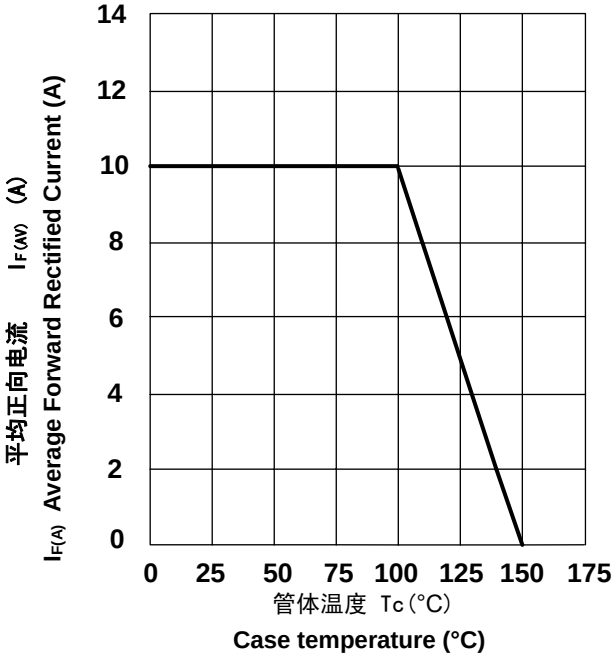
正向特性曲线（典型值）

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

