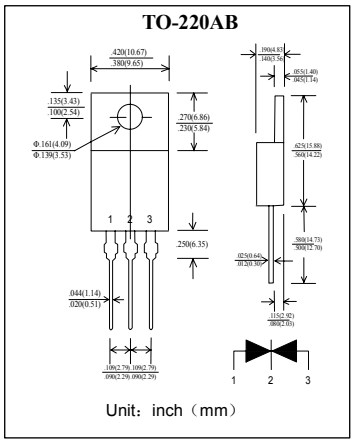
MBR830CT MBR8100CT

肖特基二极管

反向电压 30---100V
正向电流(单管) 4.0 A

Schottky Barrier Rectifier

Reverse Voltage 30 to 100 V
Forward Current(Single) 4.0 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

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	MBR 830CT	MBR 835CT	MBR 840CT	MBR 845CT	MBR 850CT	MBR 860CT	MBR 880CT	MBR 8100CT	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	30	35	40	45	50	60	80	100	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	21	24.5	28	31.5	35	42	56	70	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	30	35	40	45	50	60	80	100	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	4.0								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
最大反向峰值电流 @TA = 75℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	10								mA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	3.0								K/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-50 --- +150								℃

电特性 TA = 25℃ 除非另有规定。

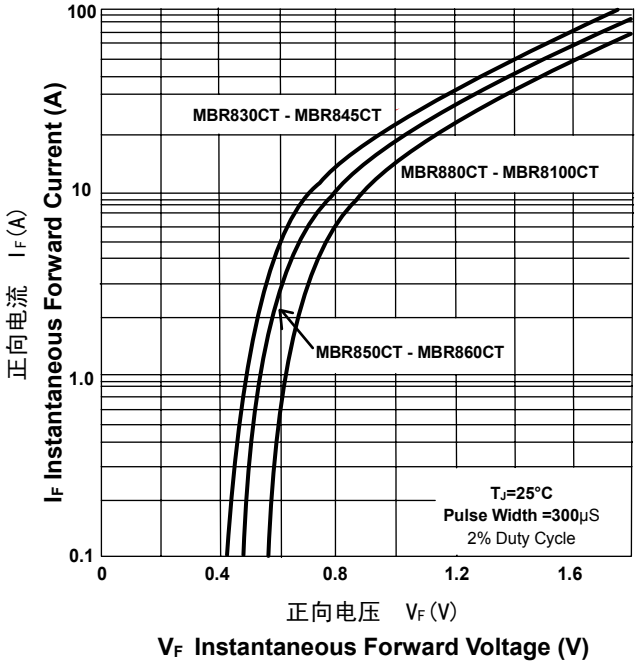
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	符号 Symbols	MBR 830CT	MBR 835CT	MBR 840CT	MBR 845CT	MBR 850CT	MBR 860CT	MBR 880CT	MBR 8100CT	单位 Unit
最大正向电压 Maximum forward voltage I_F = 4.0A T_C= 125℃	V_F	0.70				0.80		0.85		V
最大反向电流 Maximum reverse current TA= 25℃ TA=100℃	I_R	0.1 15								mA
典型结电容 V_R = 4.0V, f = 1MHz Type junction capacitance	Cj	250								pF

特性曲线　Characteristic Curves

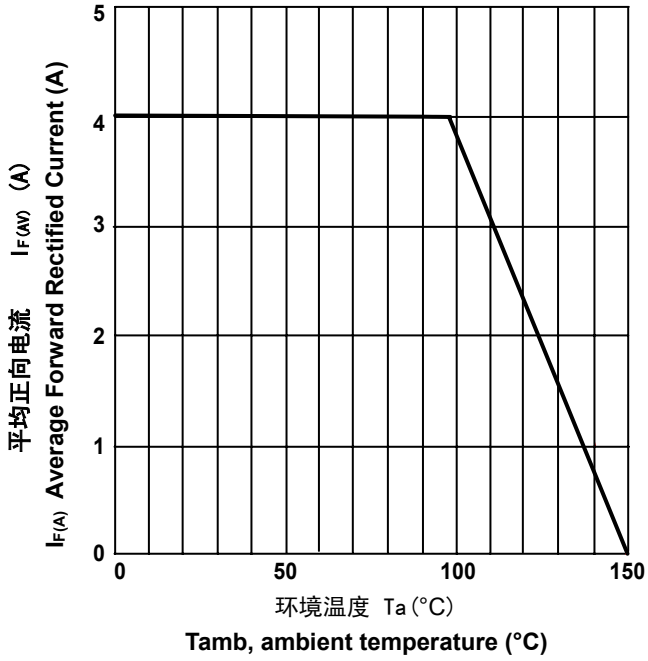
正向特性曲线（典型值）

TYPICAL FORWARD CHARACTERISTIC



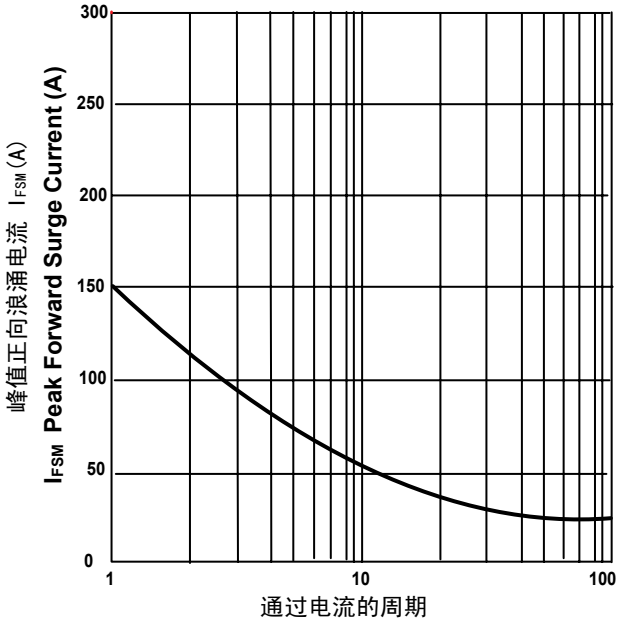
正向电流降额曲线

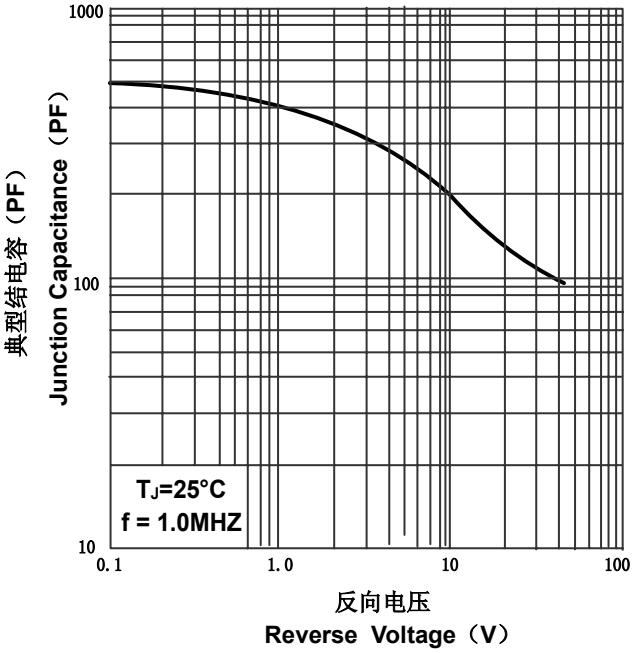
FORWARD CURRENT DERATING CURVE



浪涌特性曲线（最大值）

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



典型反向特性曲线

TYPICAL RECERSE CHARACTERISTICS