

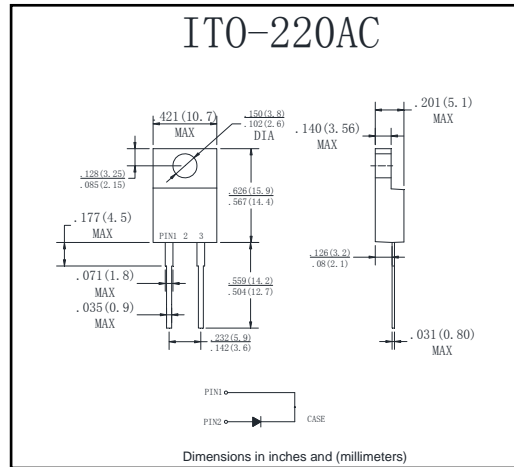


## 肖特基二极管 SCHOTTKY Diodes

### ■特征 Features

- 耐正向浪涌电流能力高  
High surge forward current capability
- 低功耗, 大电流  
Low Power loss, High efficiency
- $I_o$  20.0A
- $V_{RRM}$  200V

### ■外形尺寸和印记 Outline Dimensions and Mark



### ■用途 Applications

- 快速整流用  
High speed switching

### ■极限值 (绝对最大额定值)

#### Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	MBR20200F
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		200
平均整流输出电流 Average Rectified Output Current	$I_o$	A	正弦半波 60Hz, 电阻负载, $T_c$ (Fig.1) 60HZ Half-sine wave, Resistance load, $T_c$ (Fig.1)	20
正向(不重复)浪涌电流 Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz正弦波, 一个周期, $T_a=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	250
正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time	$I^2t$	$A^2s$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , 单个二极管 $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode	261
贮存温度 Storage Temperature	$T_{stg}$	$^\circ\text{C}$		-55 ~ +150
结温 Junction Temperature	$T_j$	$^\circ\text{C}$	在正向直流条件下, 没有施加反向电压, 通电 $\leq 1\text{h}$ (图示1) ① IN DC Forward Mode-Forward Operations, without reverse bias, $t \leq 1\text{h}$ (Fig. 1) ①	-55 ~ +150

### ■电特性 ( $T_a=25^\circ\text{C}$ 除非另有规定)

#### Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值 Max	
正向峰值电压 Peak Forward Voltage	$V_{FM}$	V	$I_{FM} = 20.0\text{A}$	0.95	
反向峰值电流 Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM} = V_{RRM}$	$T_a=25^\circ\text{C}$	0.05
	$I_{RRM2}$			$T_a=100^\circ\text{C}$	1
热阻 Thermal Resistance	$R_{\theta JC}$	$^\circ\text{C}/\text{W}$	结和壳之间 Between junction and case	2.0	

### ■备注 NOTE

① Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.

■ 特性曲线 (典型) Characteristics(Typical)

图1: 正向电流降额曲线  
FIG1: IF (AV) --Tc Derating

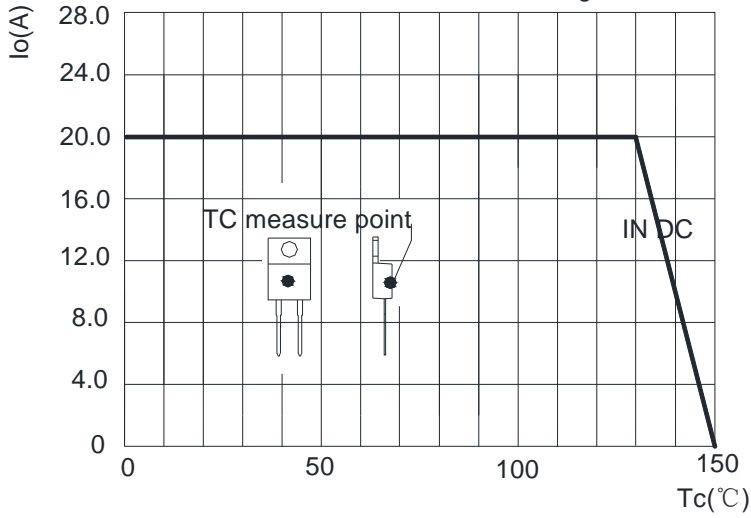


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capacity

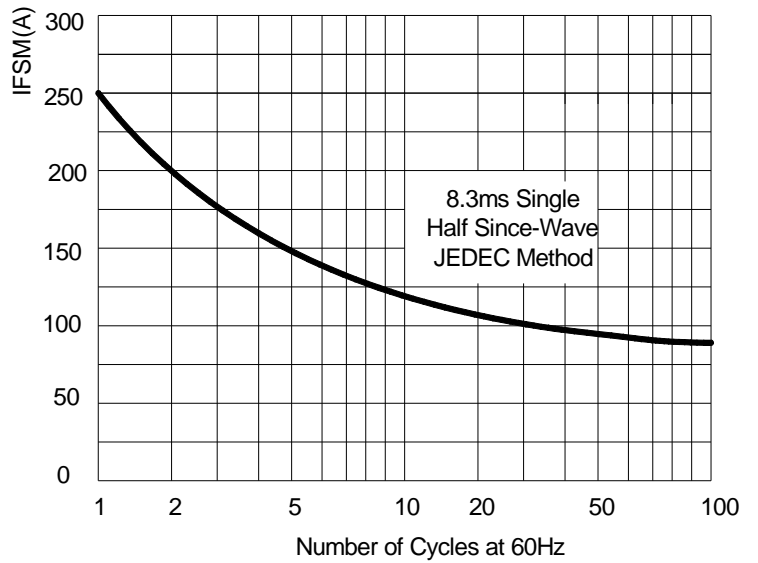


图3: 正向电压曲线  
FIG3: Instantaneous Forward Voltage

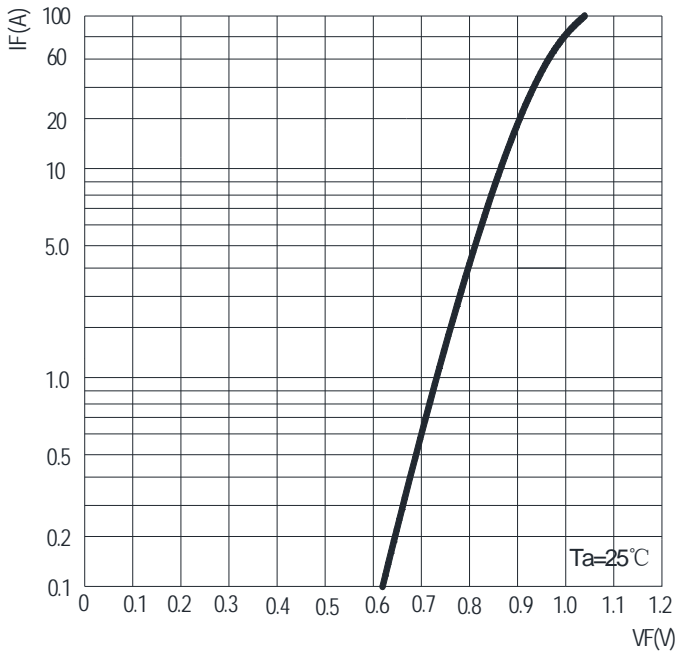
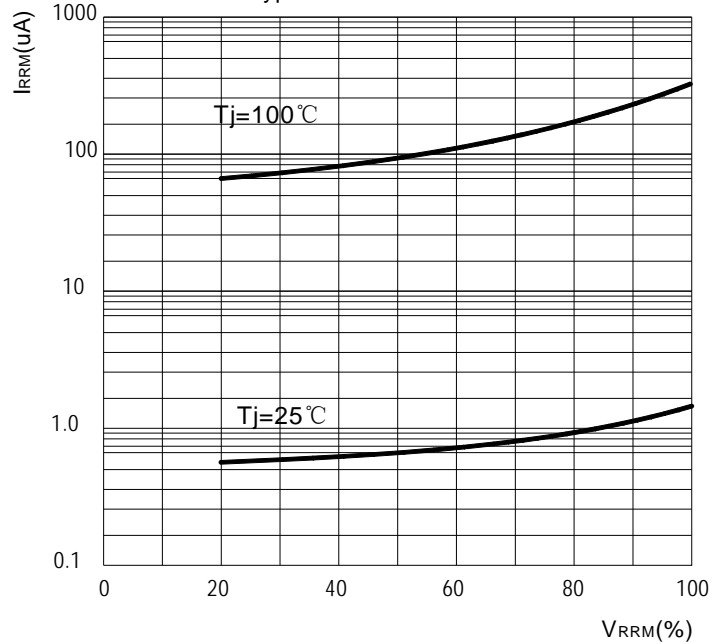


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics



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