

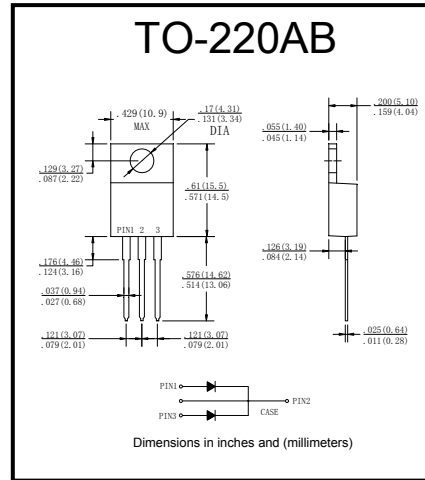


## 肖特基二极管 SCHOTTKY Diodes

### ■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
- $V_{RRM}$  90-200V

### ■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	MBR			
				2090CT	20100CT	20150CT	20200CT
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		90	100	150	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, $T_a=25^\circ\text{C}$	150			
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	$i^2t$	$\text{A}^2\text{s}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , 单个二极管 $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode	94			
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，没有施加反向压降，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	MBR			
				2090CT	20100CT	20150CT	20200CT
正向峰值电压 Peak Forward Voltage	$V_{FM}$	V	$I_{FM} = 10\text{A}$	0.85		0.9	0.95
反向峰值电流 Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM} = V_{RRM}$	$T_a=25^\circ\text{C}$			
	$I_{RRM2}$			$T_a=100^\circ\text{C}$			
热阻 Thermal Resistance	$R_{\theta J-C}$	$^\circ\text{C/W}$	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: Forward Current Derating Curve

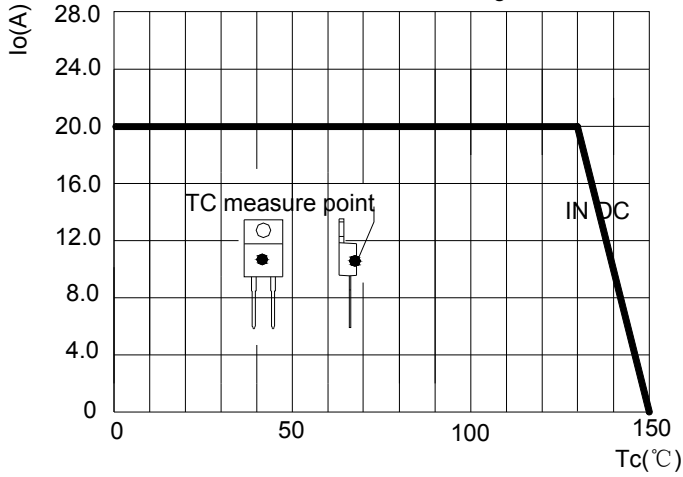


图2: 耐正向浪涌电流曲线

FIG2: Surge Forward Current Capability

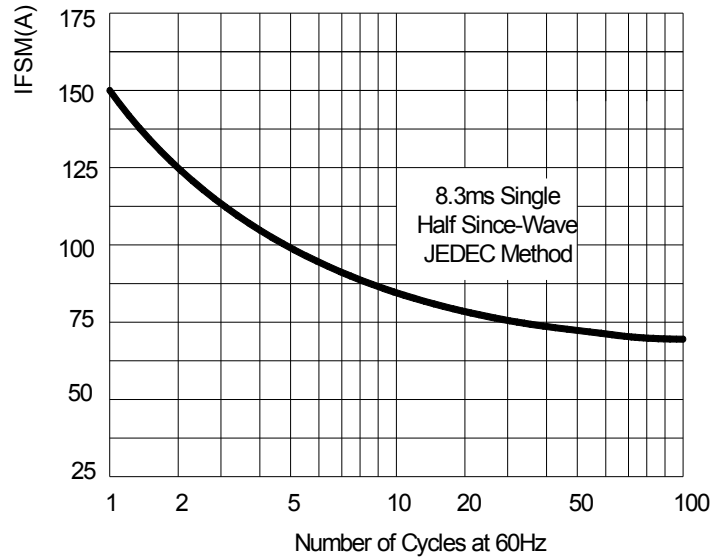


图3: 正向电压曲线

FIG3: Instantaneous Forward Voltage

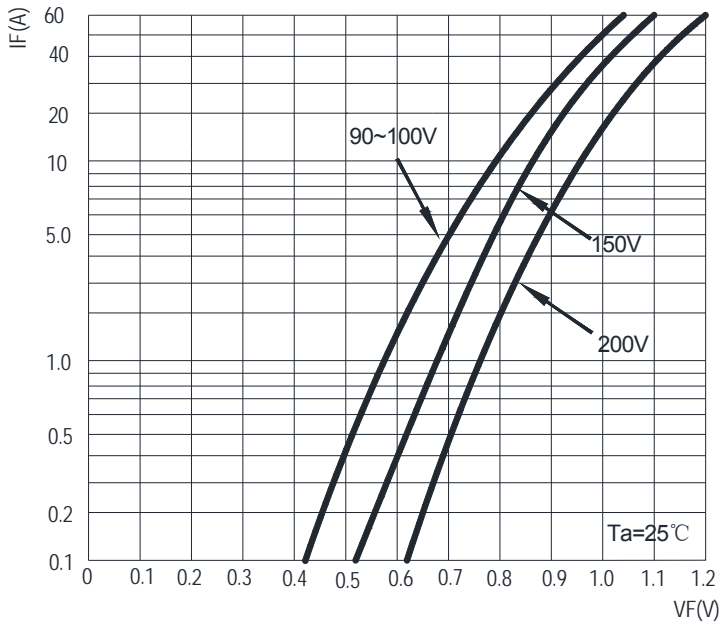
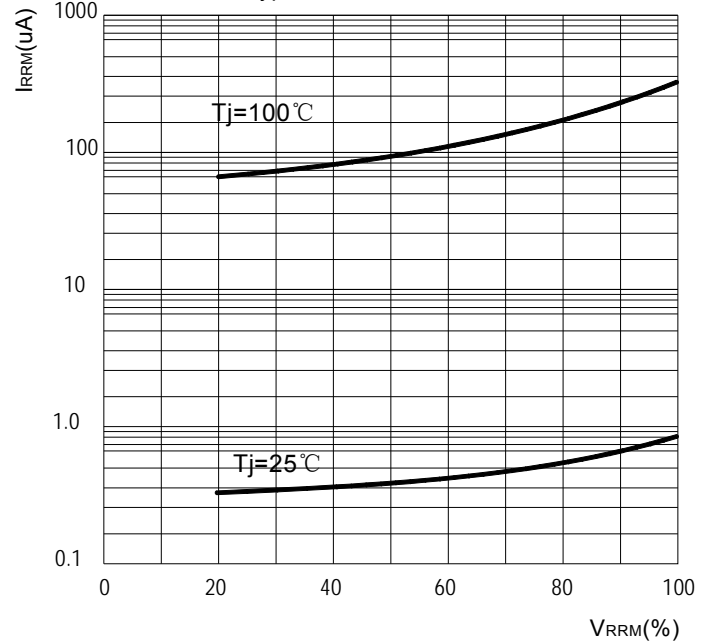


图4: 反向电流曲线

FIG4: Typical Reverse Characteristics



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