# MBR2035FCT THRU MBR20150FCT

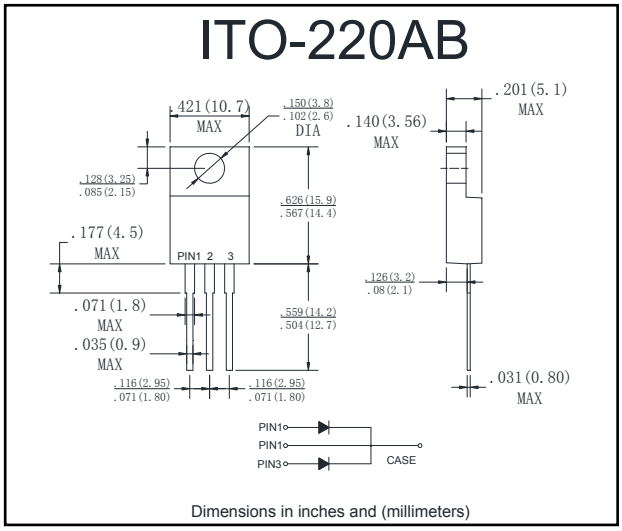
RoHS COMPLIANT

## 肖特基二极管 Schottky Rectifier

### ■特征 Features

- $I_o$ 20A
- $V_{RRM}$ 35V-150V
- 耐正向浪涌电流能力高
  High surge current capability
- 封装：模压塑料
  Cases: Molded plastic

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




### ■用途 Applications

- 整流用 Rectifier

### ■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 | 测试条件 Test Conditions | MBR20-FCT | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 35 | 45 | 50 | 60 | 90 | 100 | 150 |
| 反向重复峰值电压 Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | | 35 | 45 | 50 | 60 | 90 | 100 | 150 |
| 平均整流输出电流 Average Rectified Output Current | $I_o$ | A | 正弦半波 60Hz，电阻负载，Tc(Fig.1) 60HZ Half-sine wave, Resistance load, Tc(Fig.1) | 20.0 | | | | | | |
| 正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current | $I_{FSM}$ | A | 正弦半波 60Hz，一个周期，Ta=25℃ 60Hz Half-sine wave ,1 cycle , Ta =25℃ | 150 | | | | | | |
| 结温 Junction Temperature | $T_J$ | ℃ | | -55~+150 | | | | | | |
| 储存温度 Storage Temperature | $T_{STG}$ | ℃ | | -55 ~ +150 | | | | | | |

### ■电特性 （Ta=25℃ 除非另有规定）

### Electrical Characteristics ($T_a$=25℃ Unless otherwise specified)

| 参数名称 Item | 符号 Symbol | 单位 Unit | 测试条件 Test Condition | | MBR20-FCT | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 35 45 | 50 | 60 | 90 | 100 | 150 |
| 正向峰值电压 Peak Forward Voltage | $V_F$ | V | $I_F$=10.0A | | 0.75 | 0.85 | | 0.95 | | 1.02 |
| 反向漏电流 Peak Reverse Current | $I_{RRM1}$ | mA | $V_{RM}=V_{RRM}$ | Ta =25℃ | 0.15 | | | | | |
| | $I_{RRM2}$ | | | Ta =125℃ | 15 | 10 | | 5.0 | | |
| 热阻(典型) Thermal Resistance(Typical) | $R_{\theta J-C}$ | ℃/W | 结和壳之间 Between junction and case | | 3.5[1)] | | | | | |

### 备注：Notes:

1) 热电阻从结到本体,每管脚到散热片的尺寸为 2"×3"×0.25 的铝板

Thermal resistance from junction to case per leg with heat-sink size of 2"×3"×0.25" AL-plate

## ■特性曲线（典型） Characteristics(Typical)

图1：正向电流降额曲线
FIG.1: FORWARD CURRENT DERATING CURVE

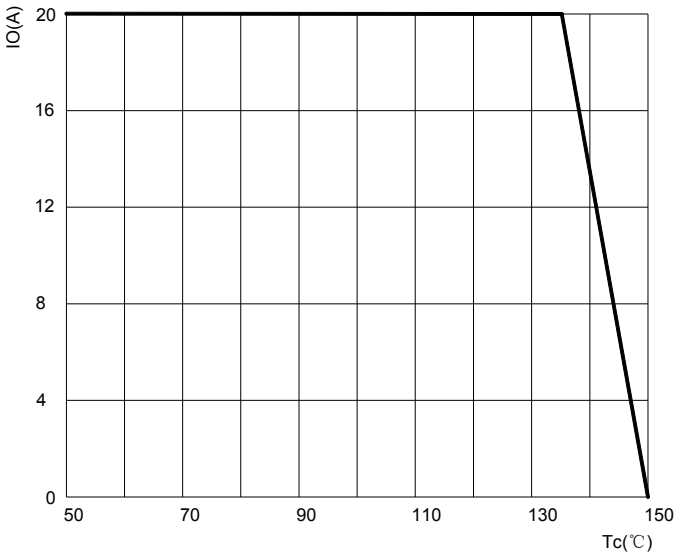



图2：最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

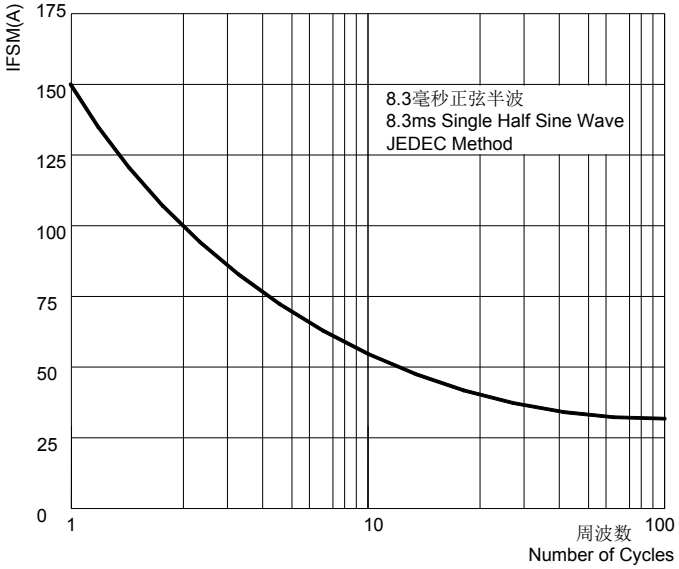



图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

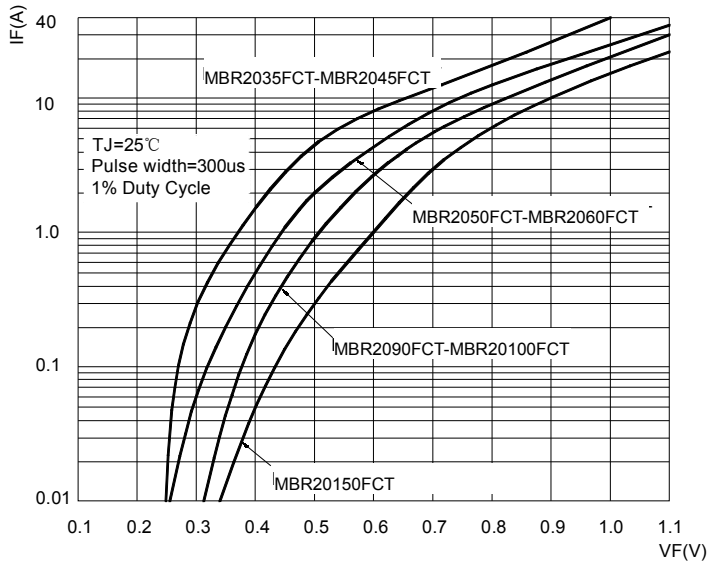



图4：典型反向特性曲线
FIG.4：TYPICAL REVERSE CHARACTERISTICS