RoHS
COMPLIANT

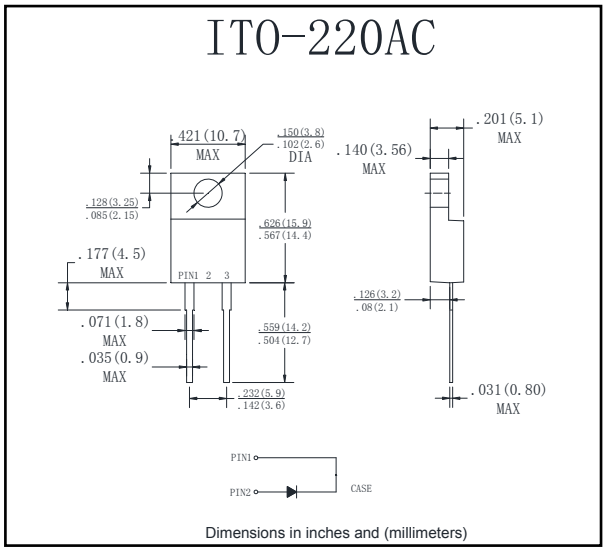
MBR1035F THRU MBR10150F

肖特基二极管 Schottky Rectifier

■特征 Features

- I_o 10A
- 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	MBR10-F						
				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)	10.0						
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		MBR10-F					
					35 45	50	60	90	100	150
正向峰值电压 Peak Forward Voltage	V_F	V	I_F=10.0A		0.70	0.80		0.85		1.05
反向漏电流 Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta =25℃	0.1					
	I_{RRM2}			Ta =125℃	15	10		6.0		
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-C}$	℃/W	结和壳之间 Between junction and case		3.0[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

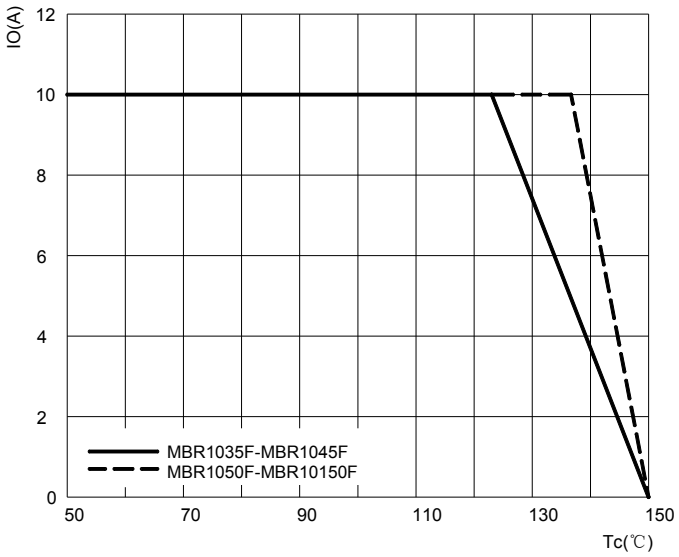


图2：最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

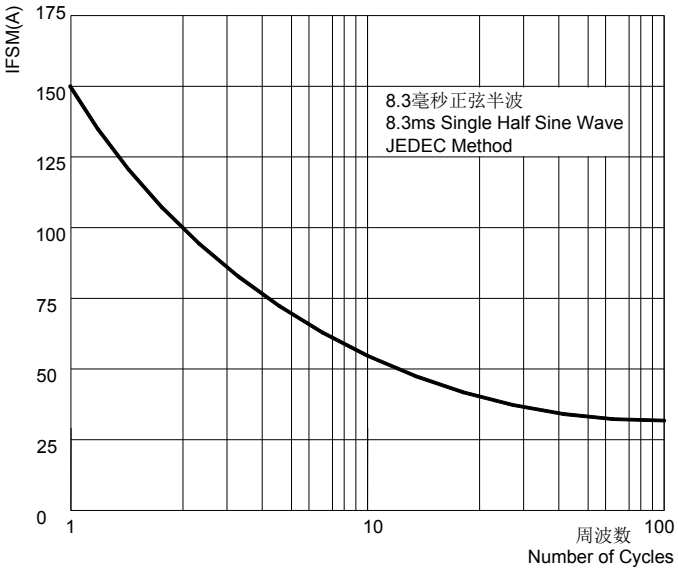


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

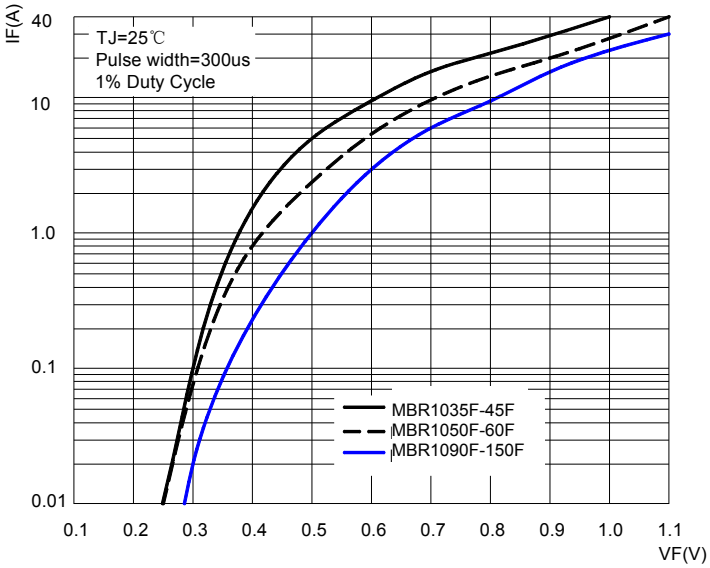


图4：典型反向特性曲线
FIG.4：TYPICAL REVERSE CHARACTERISTICS

