

■特征 Features

- I_o 30A
- V_{RRM} 35V-200V
- 耐正向浪涌电流能力高
High surge current capability
- 封装: 模压塑料
Cases: Molded plastic

■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	MBR30-FCT							
				35	45	50	60	80	100	150	200
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		35	45	50	60	80	100	150	200
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz, 电阻负载, T_c (Fig.1) 60Hz Half-sine wave, Resistance load, T_c (Fig.1)	30.0							
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, $T_a=25^\circ\text{C}$ 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	200							
结温 Junction Temperature	T_J	$^\circ\text{C}$		-55~+150							
储存温度 Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +150							

■电特性 (Ta=25℃ 除非另有规定)

Electrical Characteristics (Ta=25℃ Unless otherwise specified)

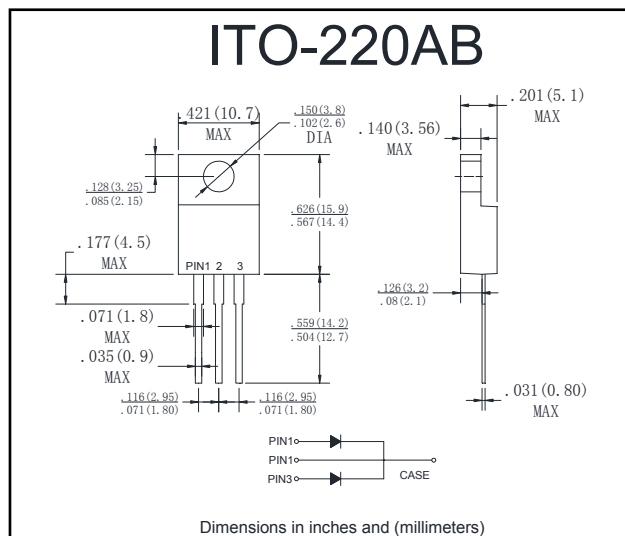
参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		MBR30-FCT							
					35	45	50	60	80	100	150	200
正向峰值电压 Peak Forward Voltage	V _F	V	I _F =15.0A		0.7		0.8		0.85		0.95	
反向漏电流 Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.2							
	T _a =125℃			20		15		10				
热阻(典型) Thermal Resistance(Typical)	R _{θJ-C}	℃/W	结和壳之间 Between junction and case		2.0 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

■外形尺寸和印记 Outline Dimensions and Mark



■特性曲线（典型） Characteristics(Typical)

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

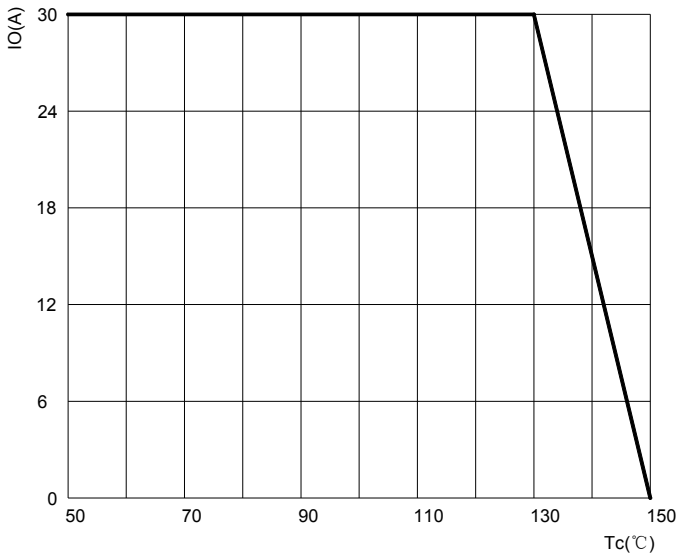


图2：最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

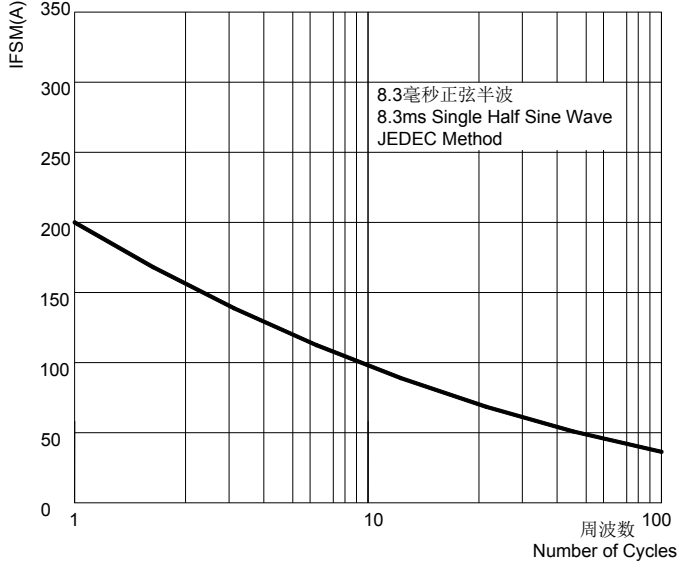


图3：正向电压曲线
FIG3: Instantaneous Forward Voltage

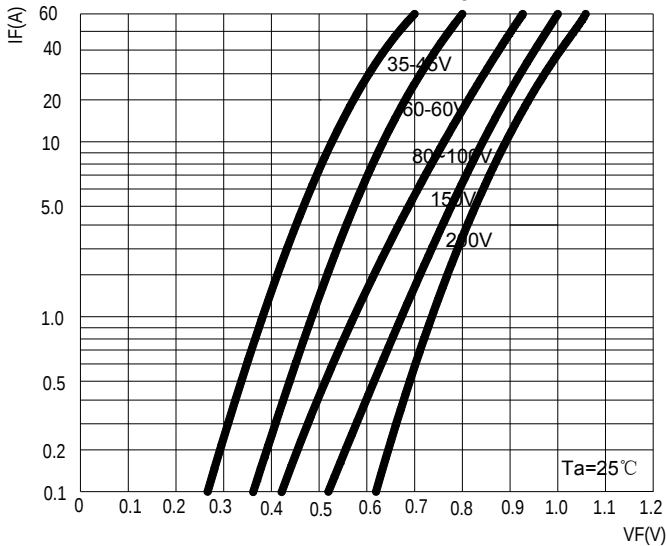


图4：反向电流曲线
FIG4: Typical Reverse Characteristics

