



超快恢复整流二极管 Super Fast Recovery Rectifier Diode

■特征 Features

- I_o 20A
- V_{RRM} 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）

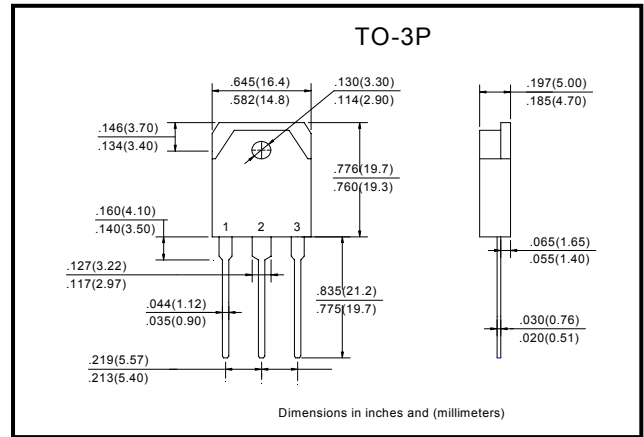
Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Conditions	最大值 MAX
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		200
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz, 电阻负载, $T_c=103^{\circ}\text{C}$ 60HZ Half-sine wave, Resistance load, $T_c=103^{\circ}\text{C}$	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, $T_a=25^{\circ}\text{C}$ 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	100
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（ $T_a=25^{\circ}\text{C}$ 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 _F	V	I _F =10.0A		0.95
反向漏电流 Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	5.0
	I _{RRM2}			T _a =125℃	50
最大反向恢复时间 Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _r =0.25A		40
热阻(典型) Thermal Resistance(Typical)	R _{θJ-C}	℃/W	结和壳之间 Between junction and case		1.5

■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

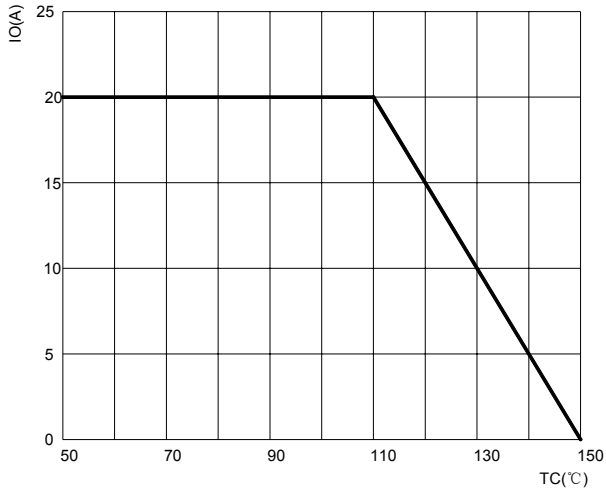


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

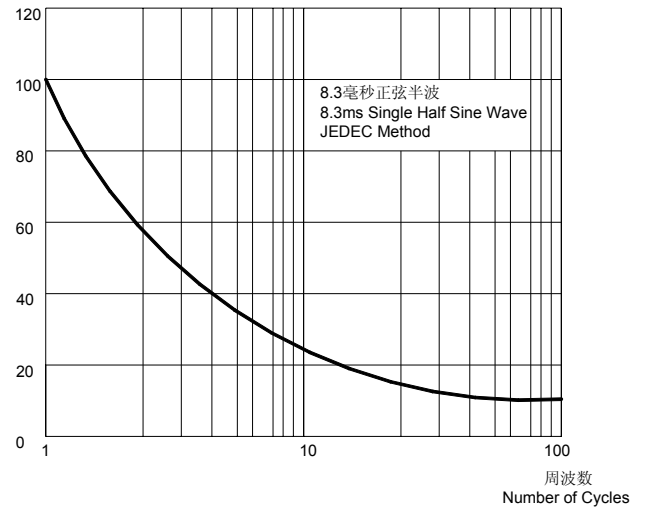


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

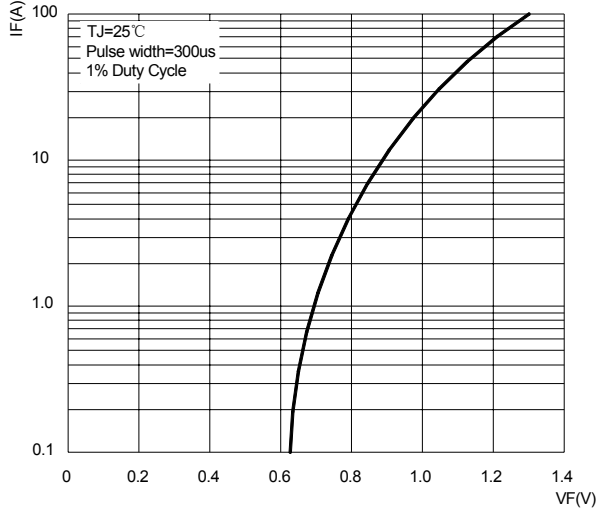


图4: 典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS

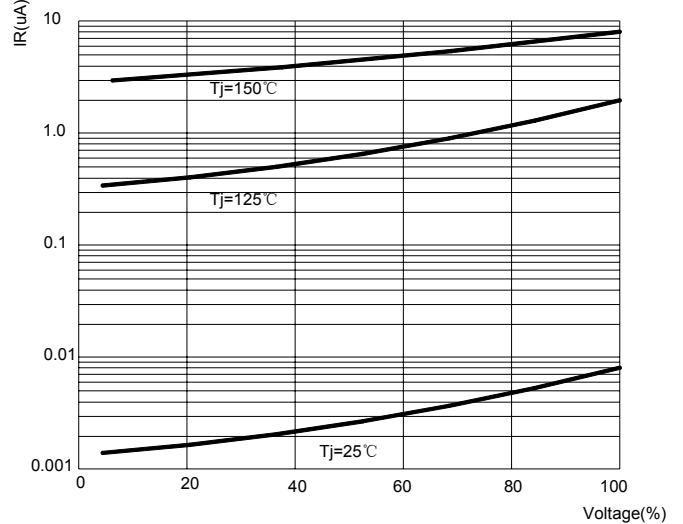


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

