

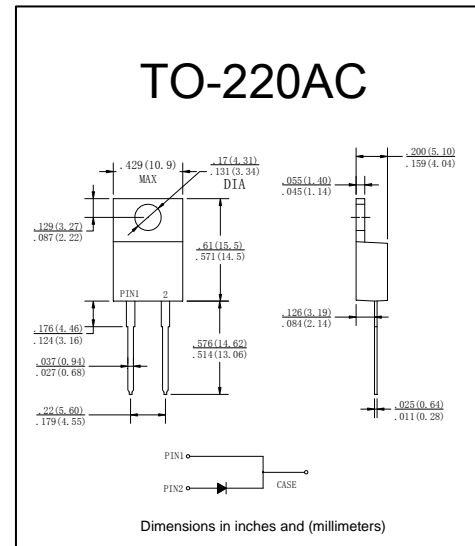


## 超快恢复整流二极管 Ultra-Fast Recovery Rectifier Diodes

### ■特征 Features

- $I_o$  16.0A
- $V_{RRM}$  200V
- 玻璃钝化芯片 Glass passivated chip
- 耐正向浪涌电流能力高  
High surge forward current capability

### ■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	MUR1620
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		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, $T_c(\text{Fig.1})$ 60HZ Half-sine wave, Resistance load, $T_c(\text{Fig.1})$	16
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, $T_a=25^\circ\text{C}$	200
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	$i^2t$	$\text{A}^2\text{s}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$	167
贮存温度 Storage Temperature	$T_{stg}$	$^\circ\text{C}$		-55 ~ +150
结温 Junction Temperature	$T_j$	$^\circ\text{C}$		-55 ~ +175

### ■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	$V_{FM}$	V	$I_{FM}=16.0\text{A}$	0.975	
反向峰值电流 Peak Reverse Current	$I_{RRM1}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	10
	$I_{RRM2}$			$T_a=125^\circ\text{C}$	500
反向恢复时间 Reverse Recovery Time	$T_{rr}$	ns	$I_F=0.5\text{A}$ $I_{RM}=1\text{A}$ $I_{RR}=0.25\text{A}$	50	
热阻 Thermal Resistance	$R_{\theta J-C}$	$^\circ\text{C/W}$	结和壳之间 Between junction and case	2.0	

■特性曲线（典型） Characteristics(Typical)

图1: 正向电流降额曲线  
FIG1: IF (AV) --Tc Derating

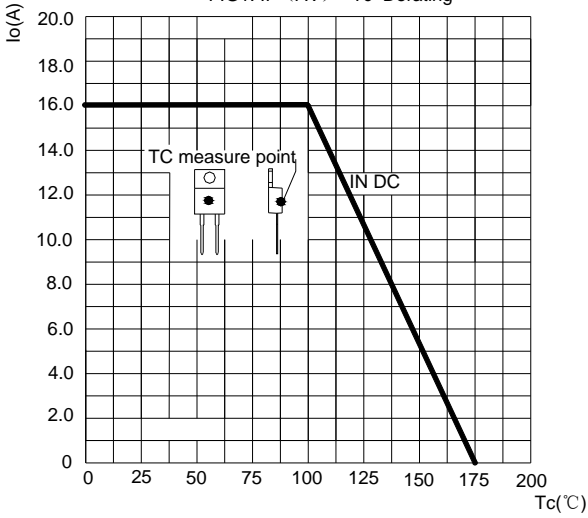


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

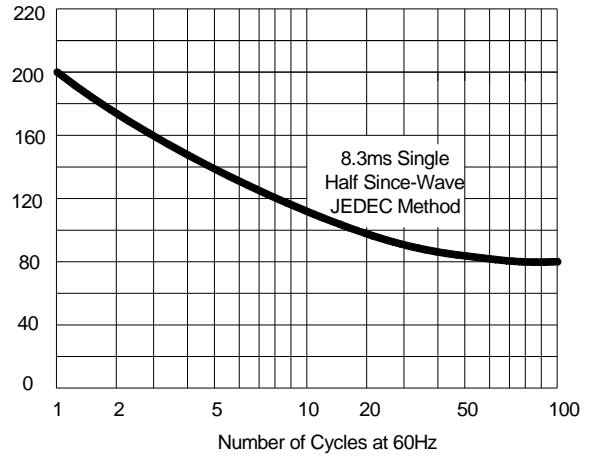


图3: 正向电压曲线  
FIG3: Instantaneous Forward Voltage

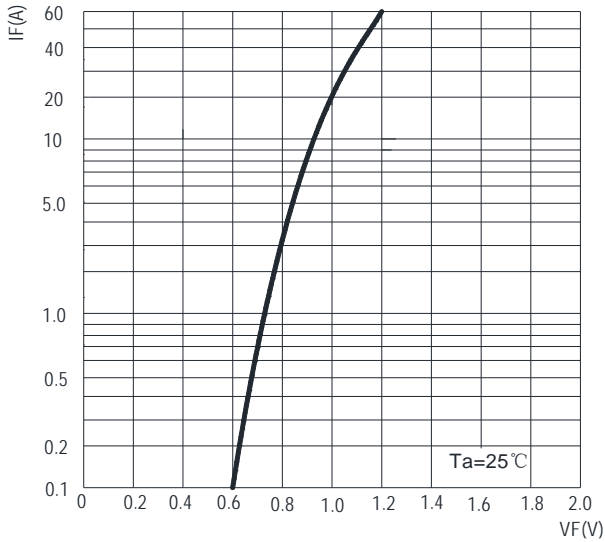


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics

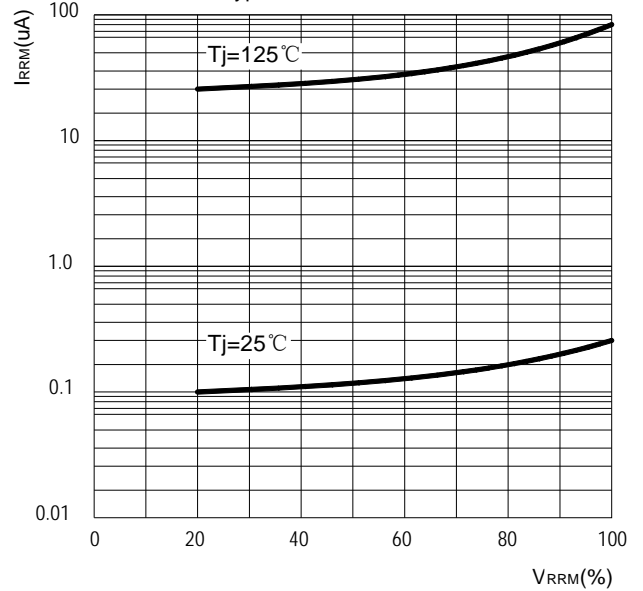
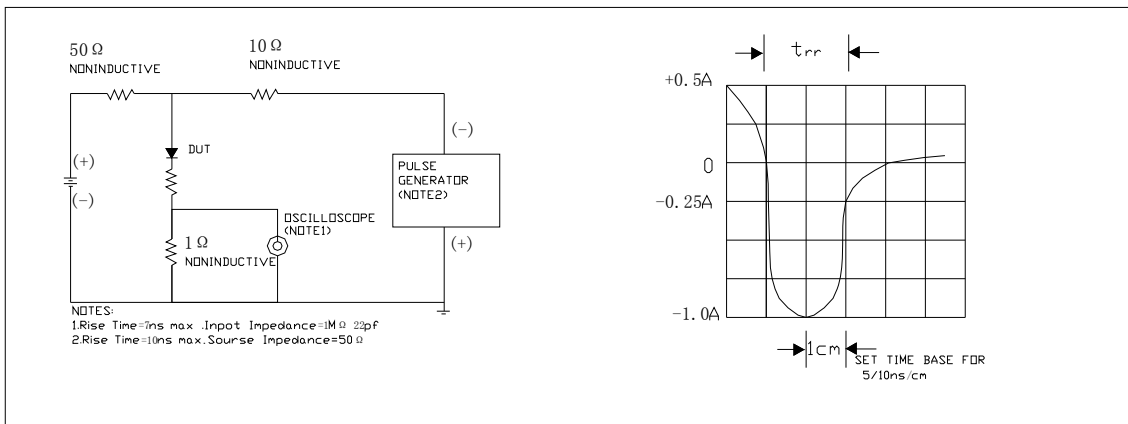


图5: 反向恢复时间试验电路及测试波形示意图  
Diagram of circuit and Testing wave form of reverse recovery time



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