



## 快恢复二极管 Fast Recovery Rectifier

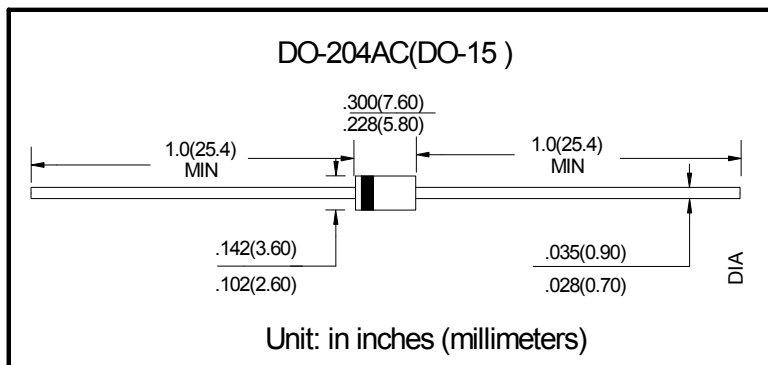
## ■特征 Features

- $I_o$  2A
- VRRM 100V-800V
- 耐正向浪涌电流能力高
- High surge current capability

## ■用途 Applications

- 整流用 Rectifier

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



## ■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	BY			
				296	297	298	299
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		100	200	400	800
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz, 电阻负载, $T_a=50^\circ\text{C}$ 60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$	2			
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, $T_a=25^\circ\text{C}$	60			
结温 Junction Temperature	$T_J$	$^\circ\text{C}$		-55~+125			
储存温度 Storage Temperature	$T_{STG}$	$^\circ\text{C}$		-55 ~ +150			

## ■电特性 (Ta=25°C 除非另有规定)

## Electrical Characteristics (Ta=25°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	$I_{FM}=2.0\text{A}$	1.2	
反向峰值电流 Peak Reverse Current	$I_{RRM1}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	2.5
	$I_{RRM2}$			$T_a=125^\circ\text{C}$	100
反向恢复时间 Reverse Recovery time	$t_r$	ns	$I_F=0.5\text{A}$ $I_R=1\text{A}$ $I_{RR}=0.25\text{A}$	250	
热阻 (典型) Thermal Resistance (Typical)	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	结和环境之间 Between junction and ambient	40	
结电容 Typical junction capacitance	$C_j$	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	40	

■ 特性曲线 (典型) Characteristics(Typical)

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

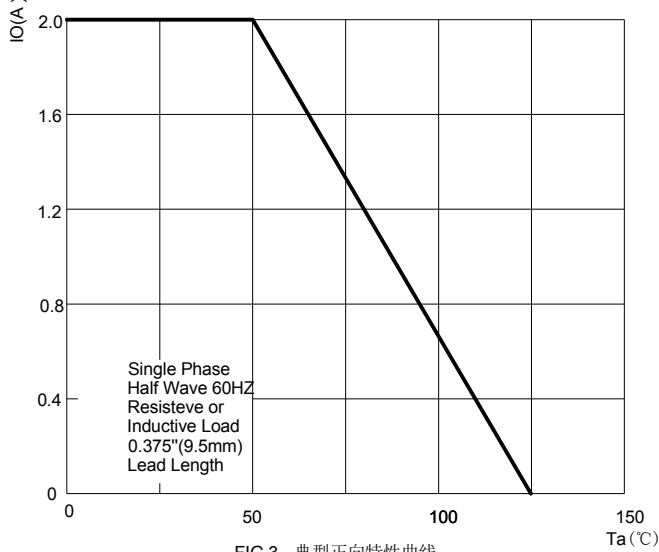


FIG.2 最大正向浪涌冲击耐受力  
MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

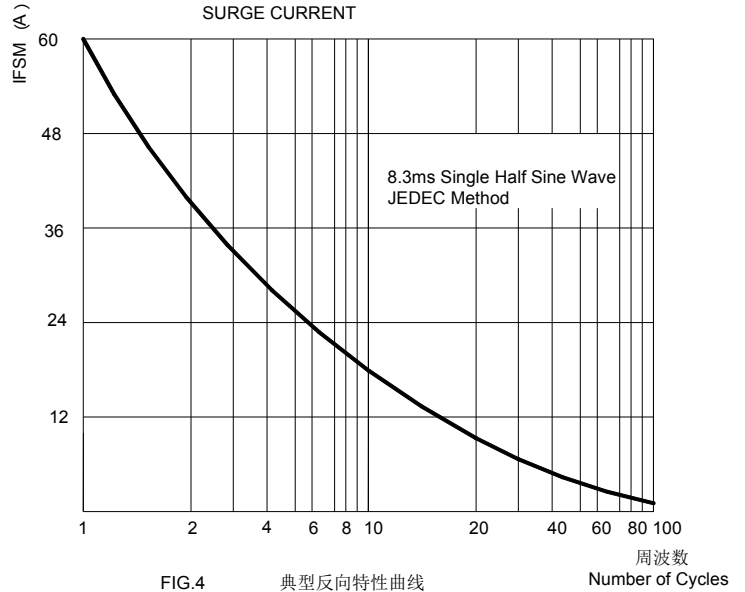


FIG.3 典型正向特性曲线  
TYPICAL FORWARD CHARACTERISTICS

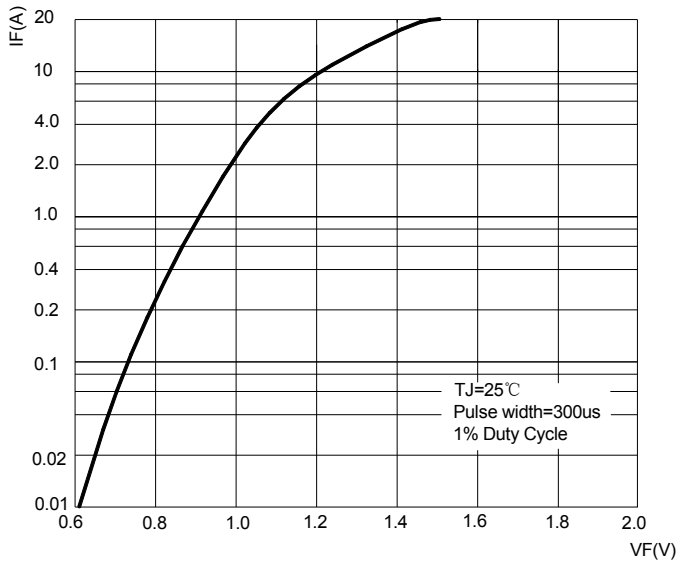


FIG.4 典型反向特性曲线  
TYPICAL REVERSE CHARACTERISTICS

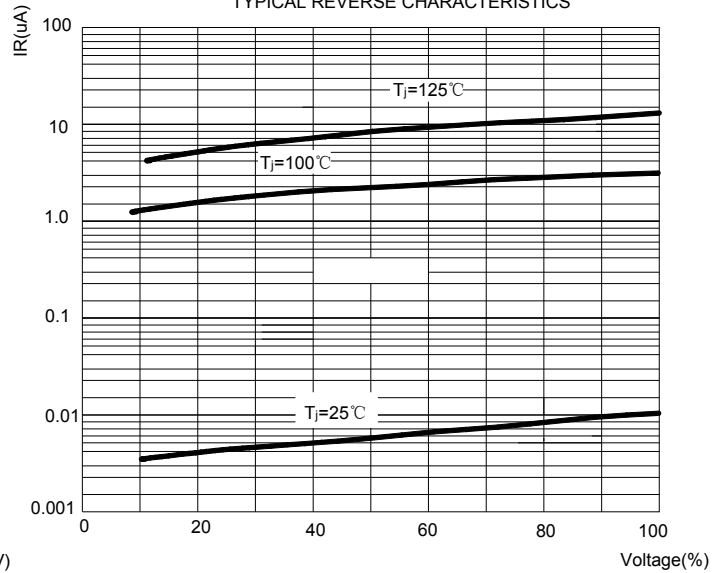


FIG.5 反向恢复时间试验电路及测试波形示意图  
Diagram of circuit and Testing wave form of reverse recovery time

