

High Efficient Rectifier

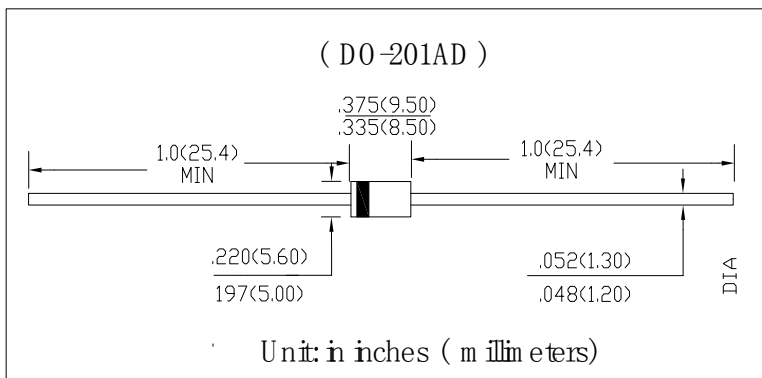
■特征 Features

- I_o 5.0A
- VRRM 50V-1000V
- 耐正向浪涌电流能力高
- High surge current capability

■ 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	HER50							
				1	2	3	4	5	6	7	8
反向重复峰值电压 Repetitive Peak Reverse Voltage	VRRM	V		50	100	200	300	400	600	800	1000
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, $T_a=50^{\circ}\text{C}$)	5							
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~+125							
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							
					HER50							
					1	2	3	4	5	6	7	8
正向峰值电压 Peak Forward Voltage	V _{FM}	V	I _{FM} =5.0A		1.0			1.3		1.7		
反向峰值电流 Peak Reverse Current	I _{RRM1}	μA	VRM=VRRM	T _a =25℃	5							
	I _{RRM2}			T _a =125℃	50							
反向恢复时间 Reverse Recovery time	trr	ns	I _F =0.5A I _R =1A I _{RR} =0.25A		50				75			

■特性曲线（典型） Characteristics(Typical)

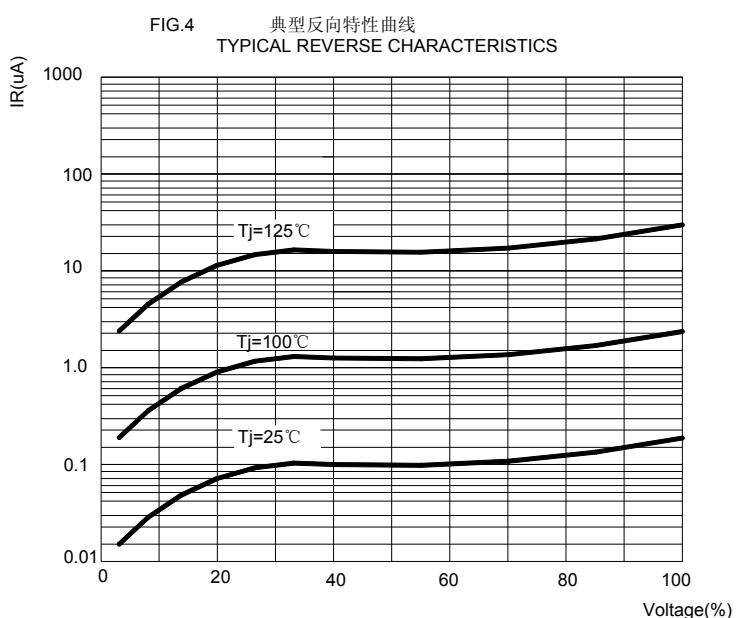
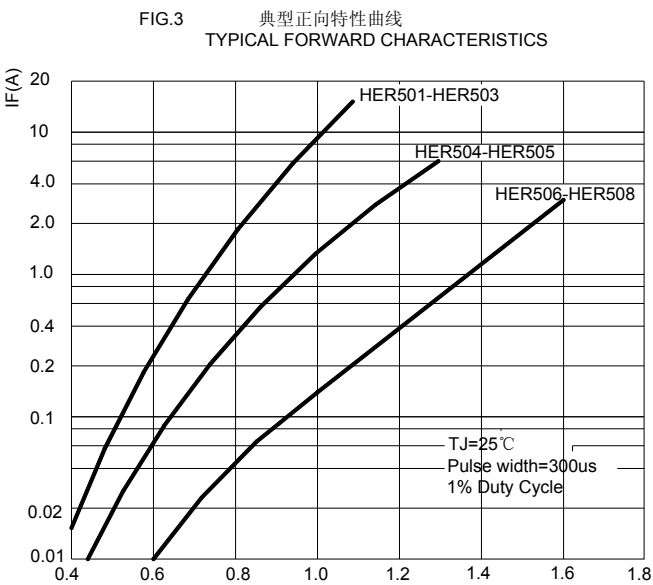
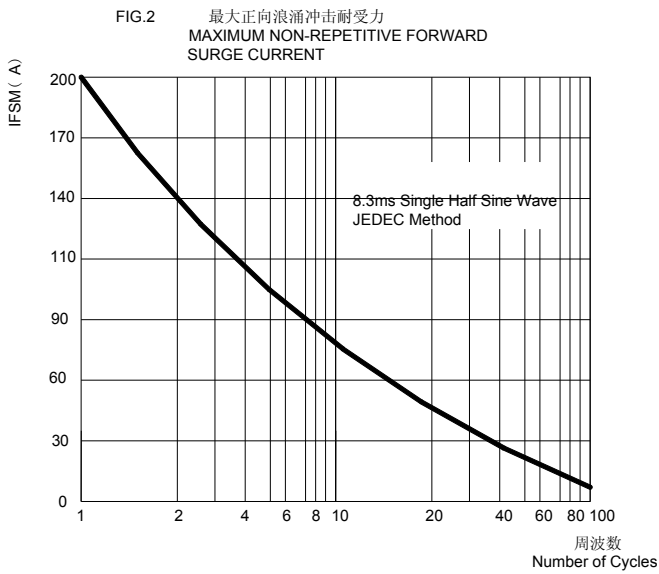
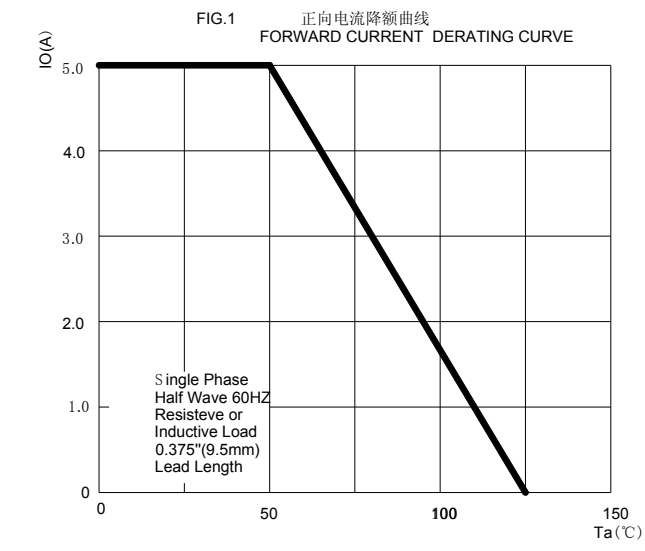


FIG.5 反向恢复时间试验电路及测试波形示意图
Diagram of circuit and Testing wave form of reverse recovery time

