

High Efficient Rectifier

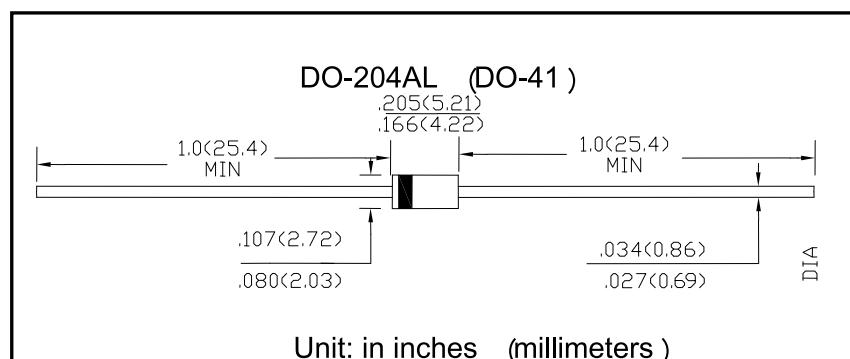
■ Features

- I_o 1.0A
- VRM 50V-1000V
- High surge current capability

■ 用途 Applications

- 整流用 Rectifier

Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	HER10							
				1	2	3	4	5	6	7	8
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	300	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz, 电阻负载 Ta (FIG.1) 60Hz Half-sine wave, Resistance load, Ta (FIG.1)								1.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	正弦半波 60Hz, 一个周期, $T_a=25^\circ C$ 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ C$								30
Junction Temperature	T_J	$^\circ C$									-55~+125
Storage Temperature	T_{STG}	$^\circ C$									-55 ~ +150

■ ($T_a=25^\circ C$ 除非另有规定)

Electrical Characteristics ($T_a=25^\circ C$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	HER10							
				1	2	3	4	5	6	7	8
正向峰值电压 Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.0A$	1.0		1.3		1.7			
反向峰值电流 Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$							2.5
	I_{RRM2}			$T_a=125^\circ C$							100
反向恢复时间 Reverse Recovery time	t_r	ns	$I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$		50			75			
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ C/W$	结和环境之间 Between junction and ambient			50			50		
结电容 Typical junction capacitance	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.				25				

HER101 THRU HER108

■特性曲线(典型) Characteristics(Typical)

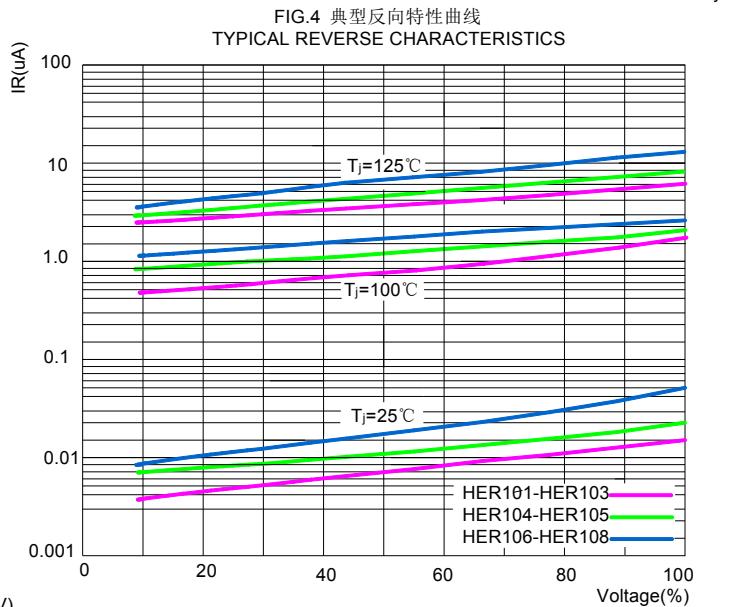
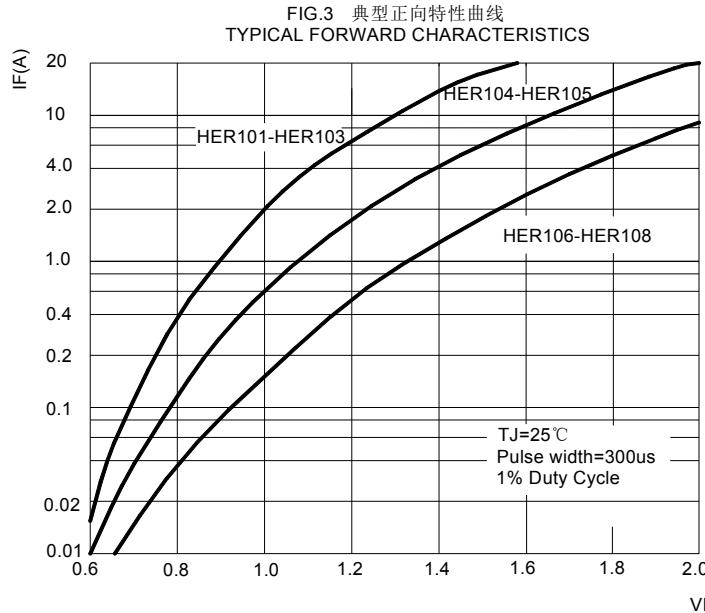
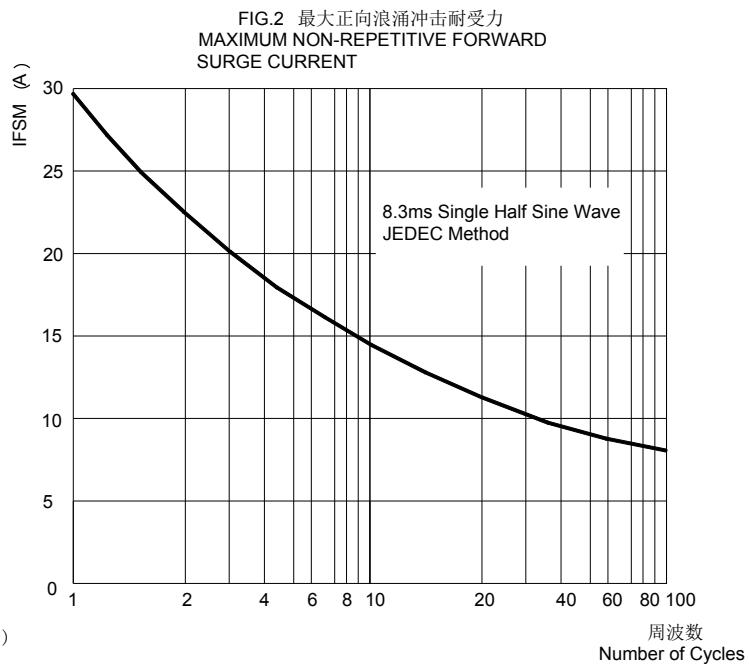
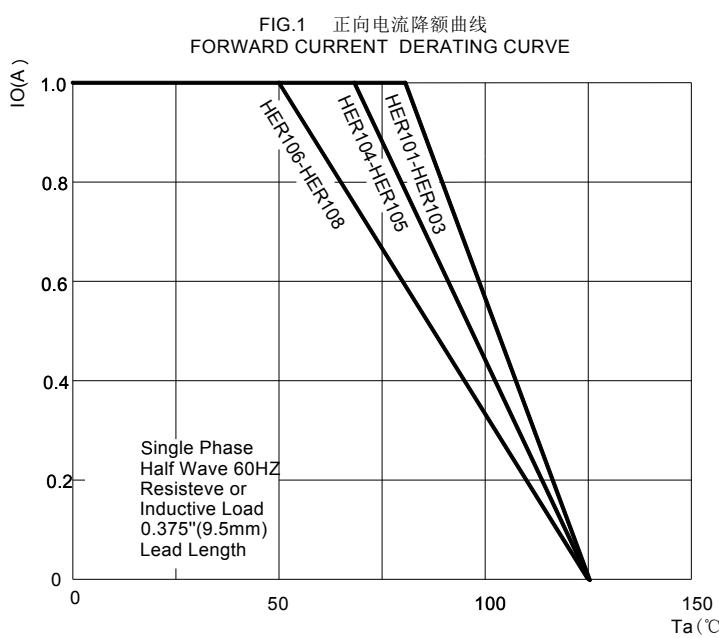


FIG.5 反向恢复时间试验电路及测试波形示意图
Diagram of circuit and Testing wave form of reverse recovery time

