HER601 THRU HER608

高效整流二极管 High Efficient Rectifier

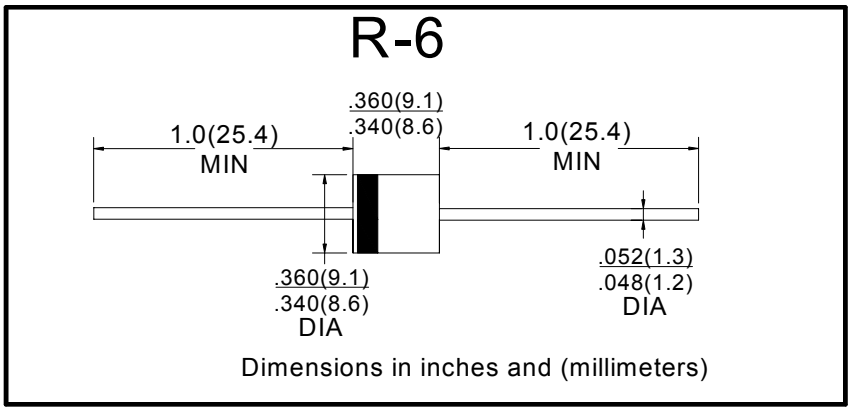
■特征 Features

- I_o 6.0A
- 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	HER60							
				1	2	3	4	5	6	7	8
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	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,Ta=50℃ 60Hz Half-sine wave, Resistance load, Ta=50℃	6							
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，Ta=25℃ 60Hz Half-sine wave,1 cycle, Ta=25℃	200							
结温 Junction Temperature	T_J	℃		-55~+125							
储存温度 Storage Temperature	T_{STG}	℃		-55 ~ +150							

■电特性 （Ta=25℃ 除非另有规定）
Electrical Characteristics (T_a=25℃ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		HER60							
					1	2	3	4	5	6	7	8
正向峰值电压 Peak Forward Voltage	V_{FM}	V	I_{FM}=6.0A		1.0			1.3		1.7		
反向峰值电流 Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	Ta=25℃	5							
	I_{RRM2}			Ta=125℃	50							
反向恢复时间 Reverse Recovery time	t_{rr}	ns	I_F=0.5A I_R=1A I_{RR}=0.25A		50					75		
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	结和环境之间 Between junction and ambient		10							
	$R_{\theta J-L}$		结和引线之间 Between junction and lead		2.5							

■特性曲线（典型） Characteristics(Typical)

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

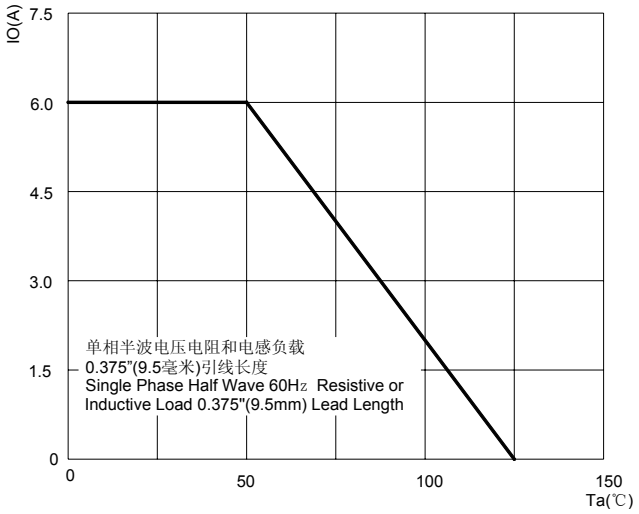


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

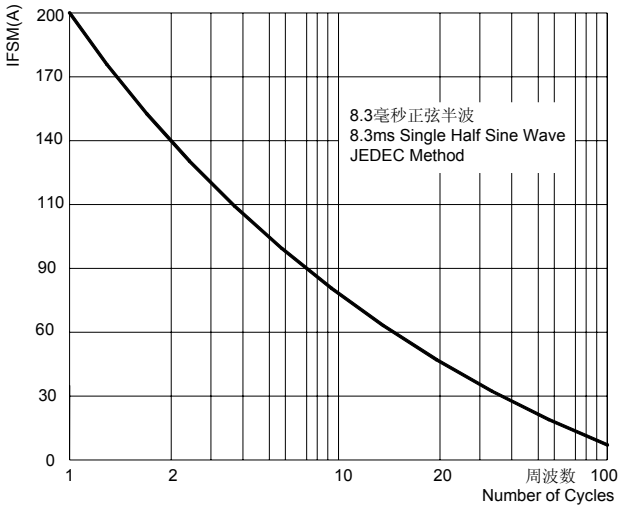


图3: 典型正向特性曲线
FIG.3：TYPICAL FORWARD CHARACTERISTICS

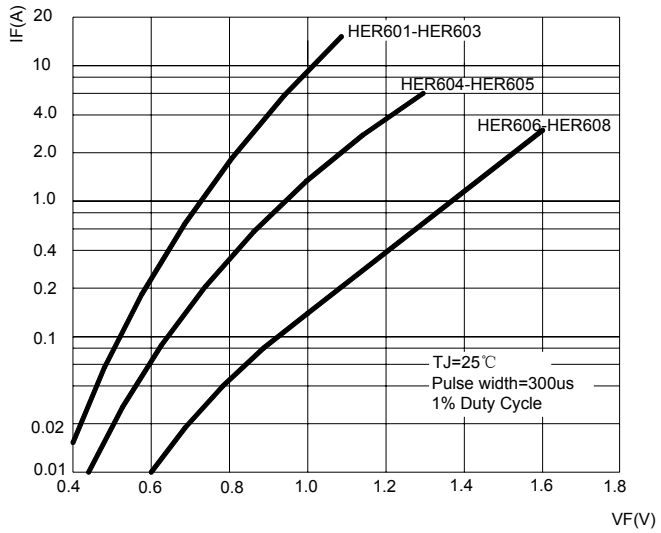


图4: 典型反向特性曲线
FIG.4:TYPICAL REVERSE CHARACTERISTICS

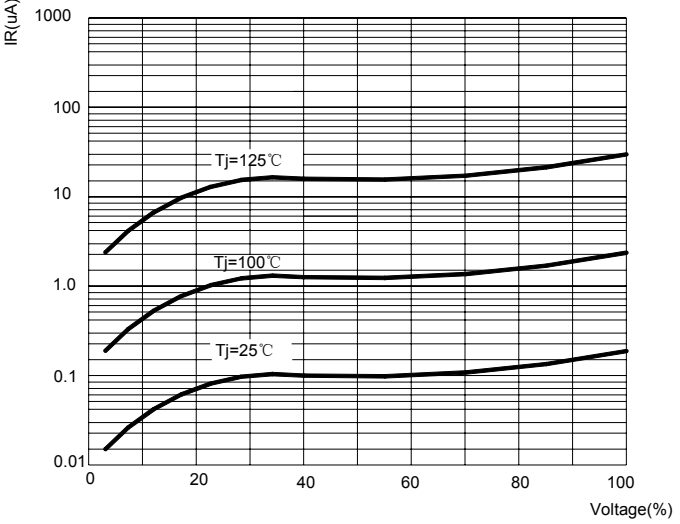


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

