



高效整流二极管 High Efficient Rectifier

■特征 Features

- I_o 3.0A
- VRRM 50V-1000V
- 耐正向浪涌电流能力高
- High surge current capability

■Applications

- 整流用 Rectifier

■极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)

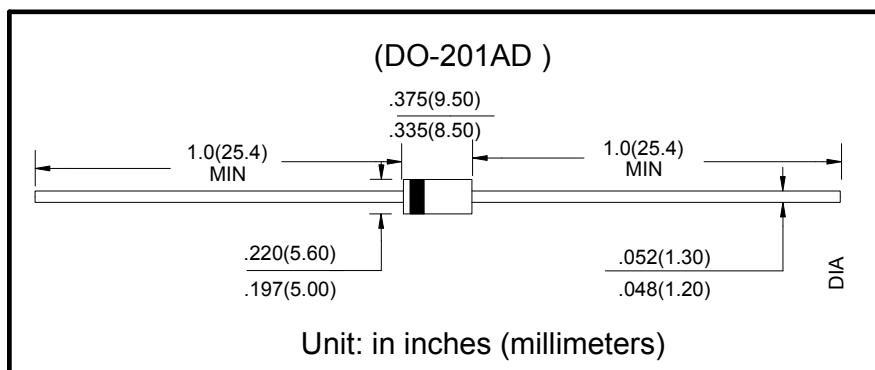
参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	HER30							
				1G	2G	3G	4G	5G	6G	7G	8G
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	300	400	600	800	1000
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz,电阻负载,Ta (FIG.1) 60Hz Half-sine wave, Resistance load, Ta (FIG.1)	3							
正向（不重复）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℃	125							
结温 Junction Temperature	T_J	℃		-55~+150							
储存温度 Storage Temperature	T_{STG}	℃		-55 ~ +150							

■电特性（Ta=25℃ 除非另有规定）

Electrical Characteristics (Ta=25℃ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		HER30							
					1G	2G	3G	4G	5G	6G	7G	8G
正向峰值电压 Peak Forward Voltage	V _{FM}	V	I _{FM} =3A		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℃	5							
	T _a =125℃			150								
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 _{θJ-A}	℃/W	结和环境之间 Between junction and ambient		30							
结电容 Typical junction capacitance	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.		70				50			

■外形尺寸和印记 Outline Dimensions and Mark



■特性曲线（典型） Characteristics(Typical)

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

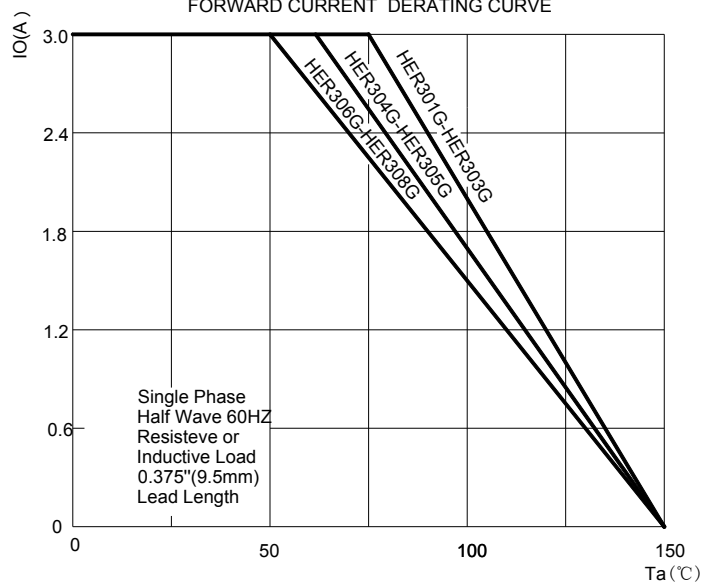


FIG.2 最大正向浪涌冲击耐受力
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

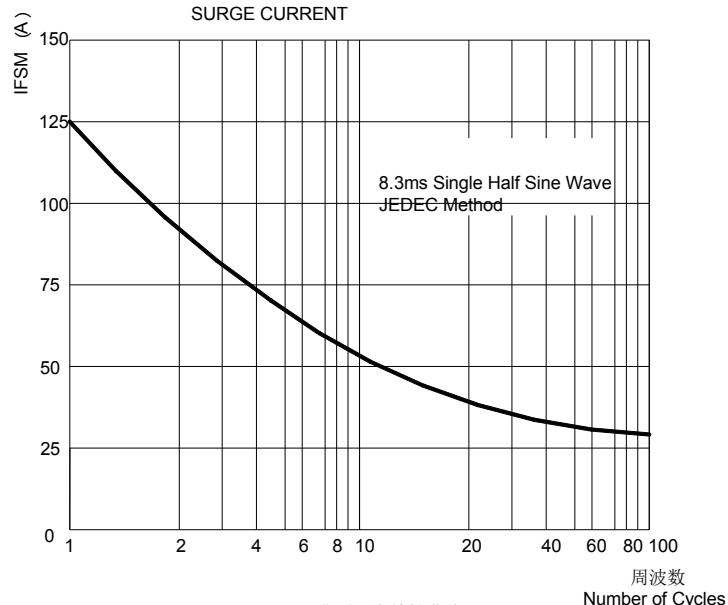


FIG.3 典型正向特性曲线
TYPICAL FORWARD CHARACTERISTICS

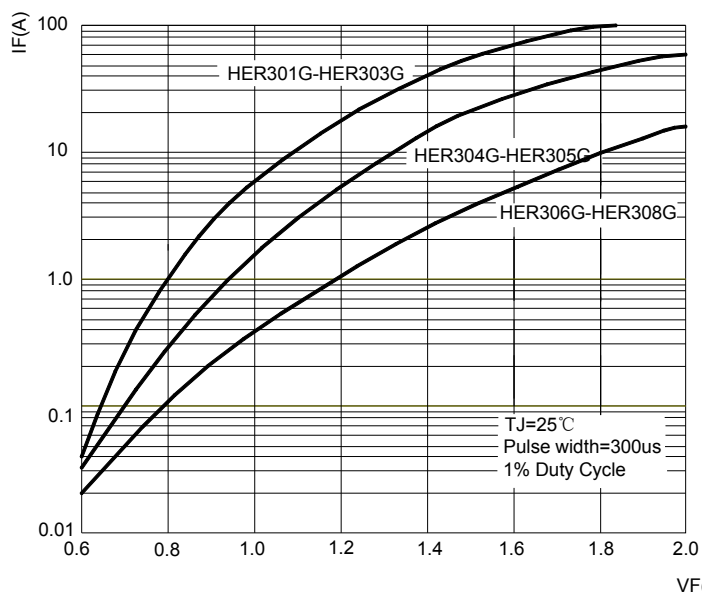


FIG.4 典型反向特性曲线
TYPICAL REVERSE CHARACTERISTICS

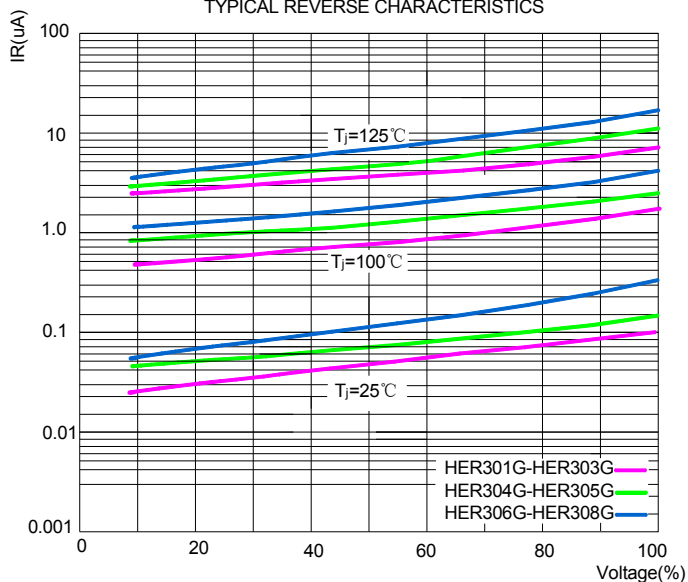


FIG.5 反向恢复时间试验电路及测试波形示意图
Diagram of circuit and Testing wave form of reverse recovery time

