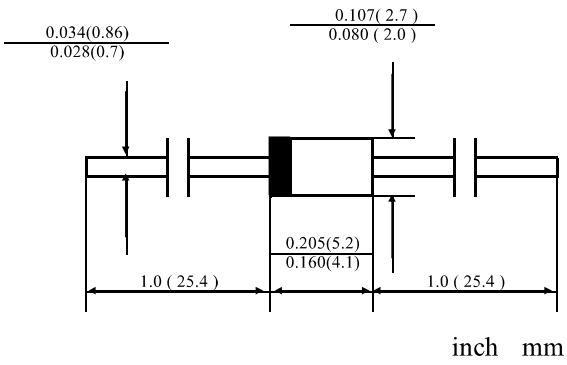
■外形尺寸和印记 Outline Dimensions and Mark

DO-41



■特征 Features

- I_o 0.2A
- VRRM 4000V
- 耐正向浪涌电流能力高
- High surge current capability

■用途 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	R4000F
反向重复峰值电压 Repetitive Peak Reverse Voltage	VRRM	V		4000
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℃)	0.2
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，Ta=25℃) (60HZ Half-sine wave,1 cycle,Ta=25℃)	30
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		最大值 Max
正向峰值电压 Peak Forward Voltage	V_{FM}	V	I_{FM}=0.2A		5.0
反向恢复时间 Reverse Recovery time	t_{rr}	ns	I_F=0.5A I_R=1A I_{RR}=0.25A		500
反向峰值电流 Peak Reverse Current	I_{RRM1}	μA	V_{RM}=V_{RRM}	Ta=25℃	5
	I_{RRM2}			Ta=100℃	50
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	结和环境之间 Between junction and ambient		130

■特性曲线（典型）

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

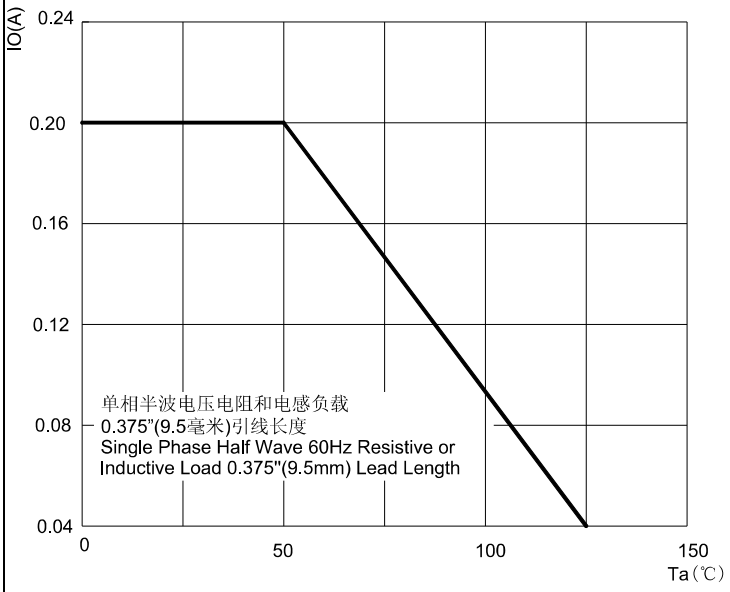


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

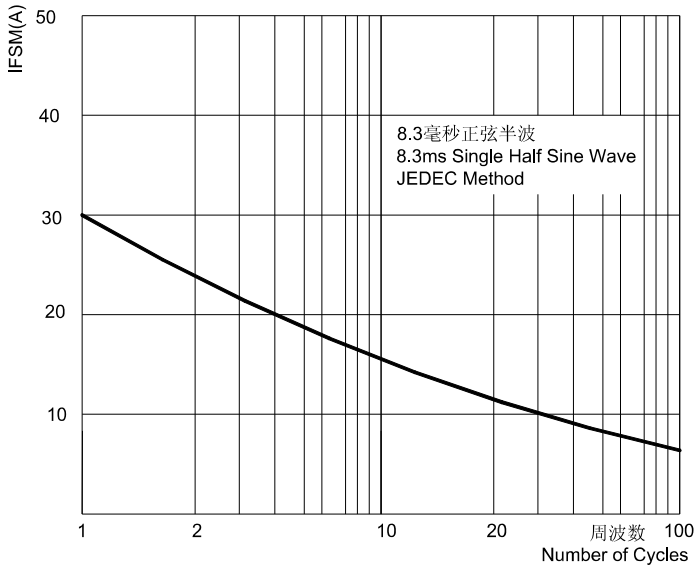


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

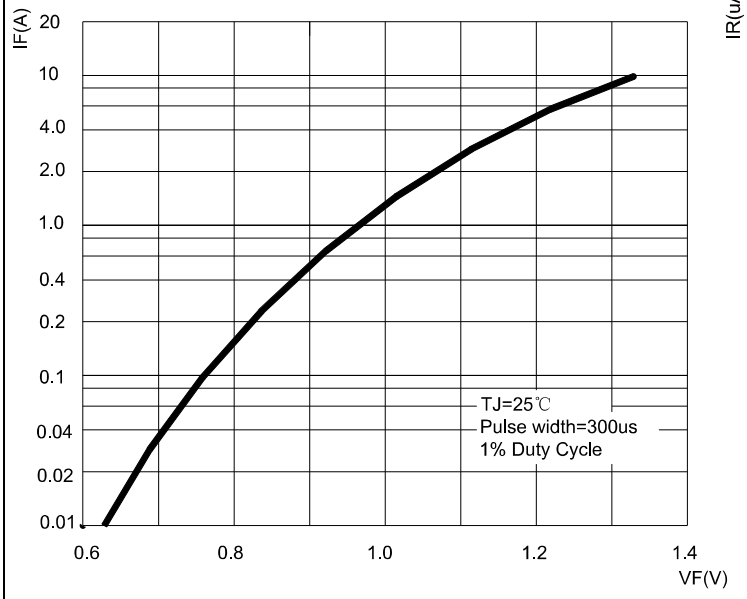


图4: 典型反向特性曲线
FIG.4:TYPICAL REVERSE CHARACTERISTICS

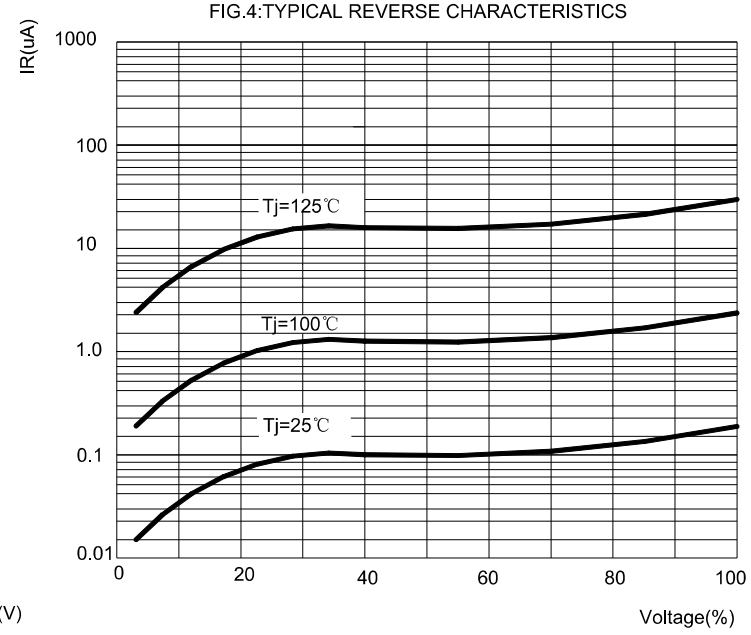
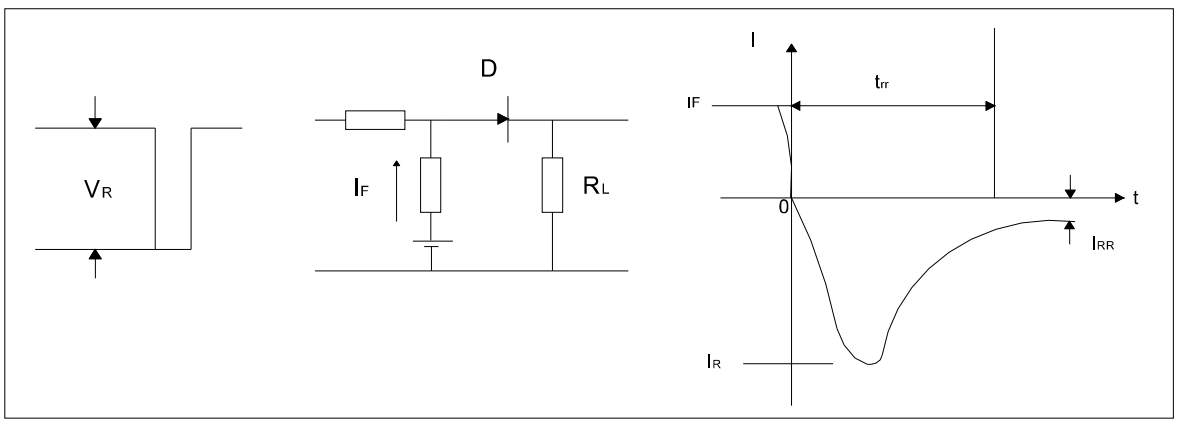



图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time