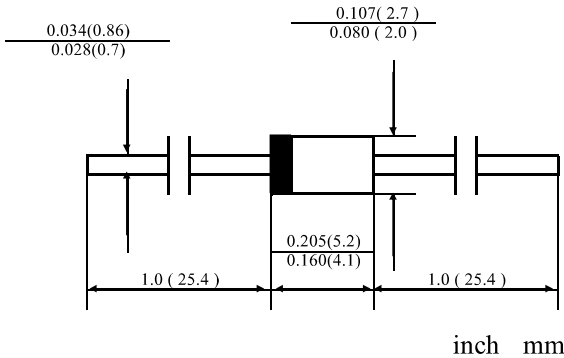


外形尺寸和印记Outline Dimensions and Mark

DO-41



特征Features

- I_o 0.2A
- VRRM 3000V
- 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	R3000F
反向重复峰值电压 Repetitive Peak Reverse Voltage	VRRM	V		3000
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 (Ta=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	4.0
反向恢复时间 Reverse Recovery time	t _{rr}	ns	I _F =0.5A I _R =1A I _{RR} =0.25A	350
反向峰值电流 Peak Reverse Current	I _{RRM1}	μA	V _{RM} =VRRM	Ta=25℃ 5
	I _{RRM2}			Ta=100℃ 50
热阻(典型) Thermal Resistance(Typical)	R _{θJ-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

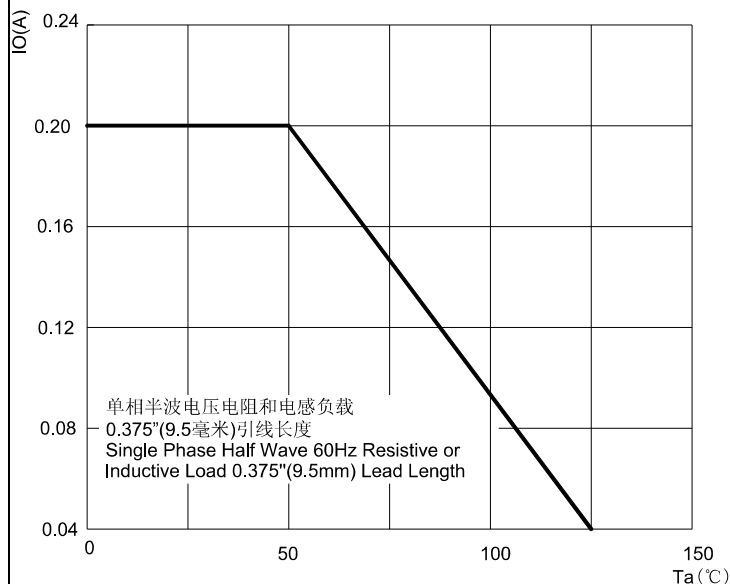


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

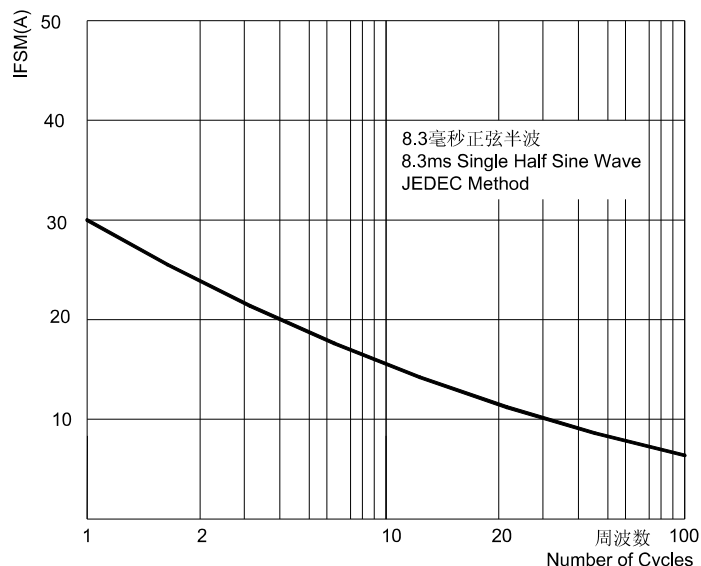


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

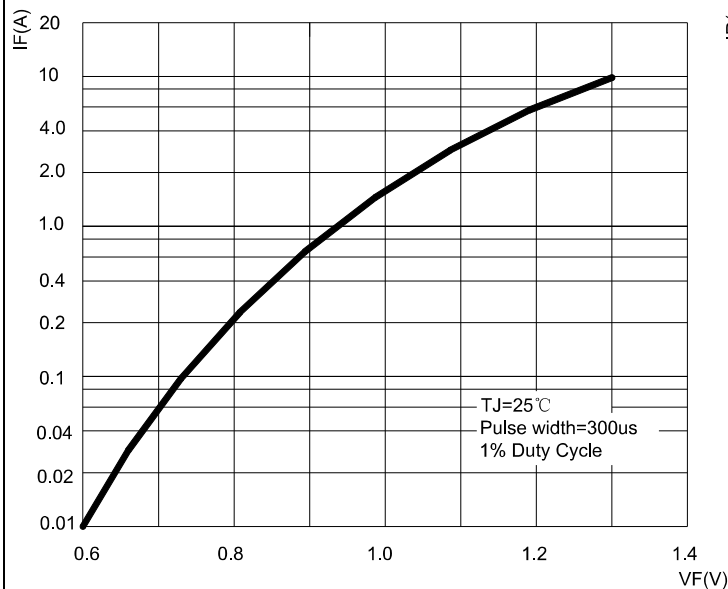


图4: 典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS

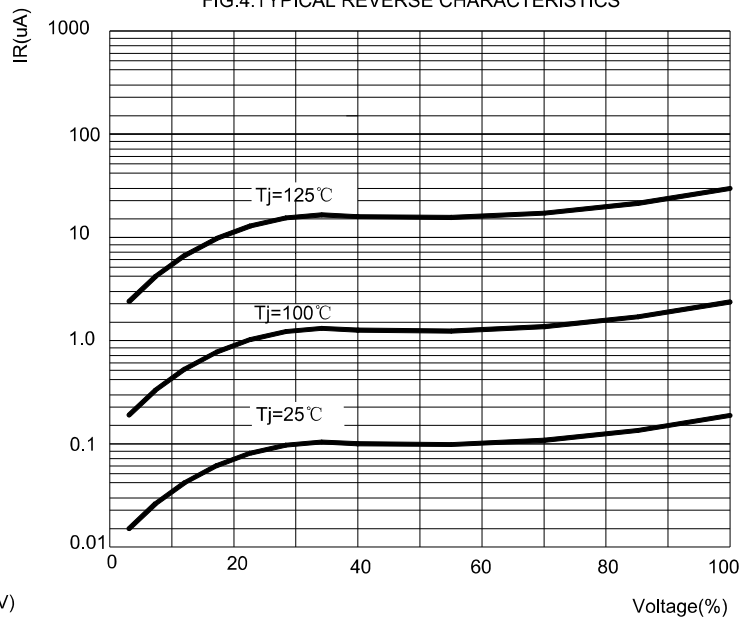


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

