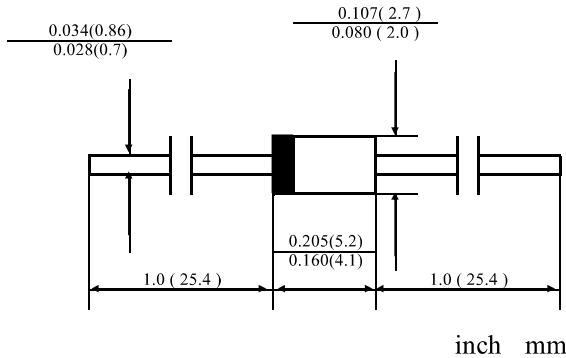


■外形尺寸和印记 **Outline Dimensions and Mark**  
DO-41



■特征 **Features**

- $I_o$  1.0A
- VRRM 50V-1000V
- 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	1N49				
				33	34	35	36	37
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz, 电阻负载, $T_a=50^\circ\text{C}$ 60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$	1.0				
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, $T_a=25^\circ\text{C}$ 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	30				
结温 Junction Temperature	$T_J$	$^\circ\text{C}$		-55~+125				
储存温度 Storage Temperature	$T_{STG}$	$^\circ\text{C}$		-55 ~ +150				

■电特性 (Ta=25°C 除非另有规定)

**Electrical Characteristics (Ta=25°C 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	$I_{FM}=1.0A$	1.2
反向峰值电流 Peak Reverse Current	$I_{RRM1}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$
	$I_{RRM2}$			$T_a=100^\circ\text{C}$
反向恢复时间 Reverse Recovery time	$t_{rr}$	ns	$I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$	150
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	结和环境之间 Between junction and ambient	55
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	25

■ 特性曲线 (典型)

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

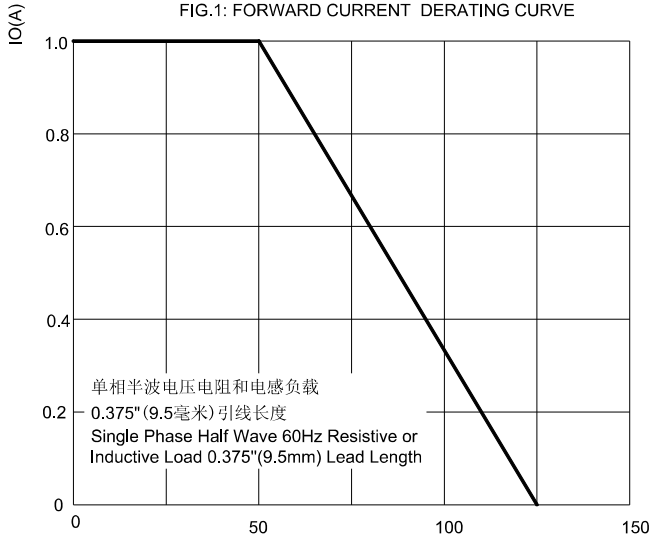


图2: 最大正向浪涌冲击耐受力  
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

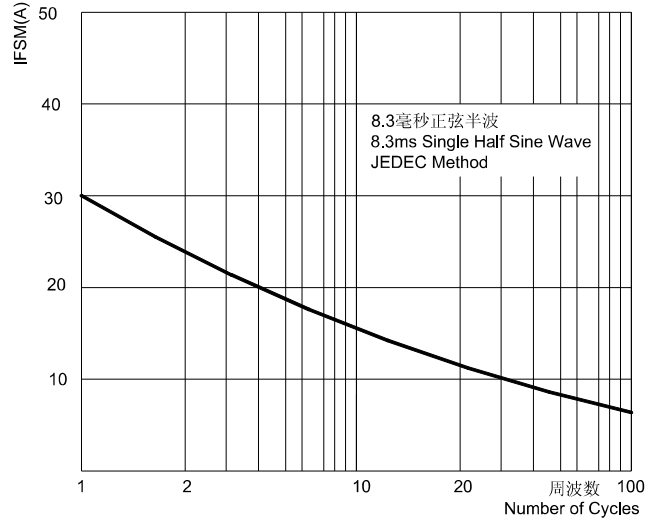


图3: 典型正向特性曲线  
FIG.3: TYPICAL FORWARD CHARACTERISTICS

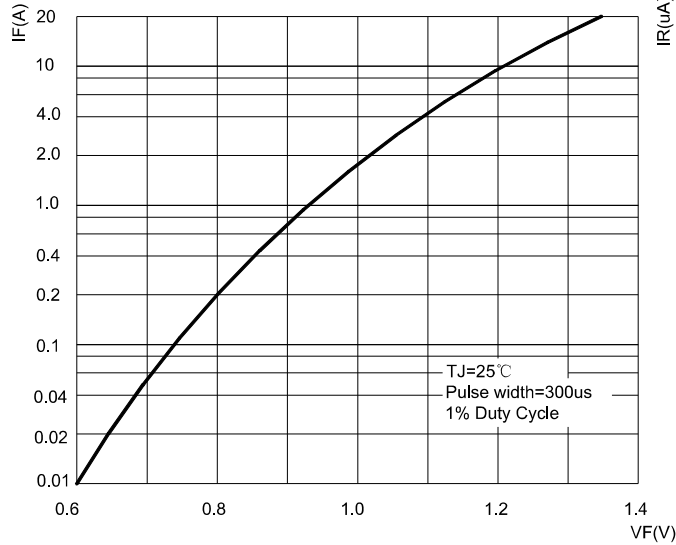


图4: 典型反向特性曲线  
FIG.4: TYPICAL REVERSE CHARACTERISTICS

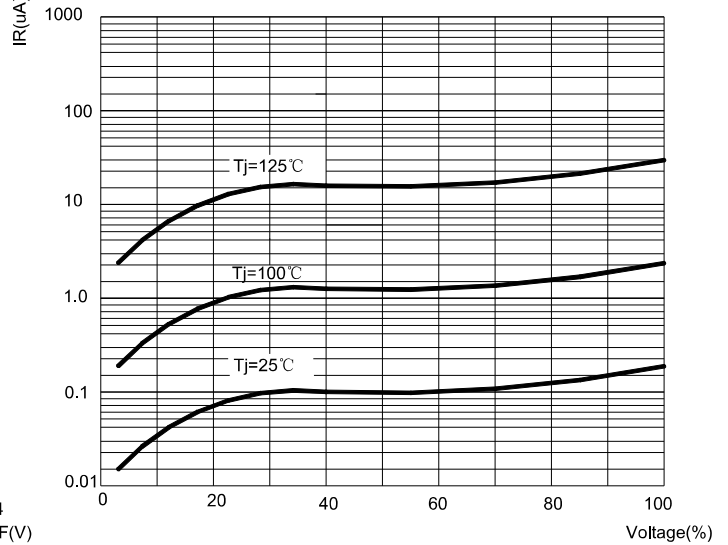


图5: 反向恢复时间试验电路及测试波形示意图  
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

