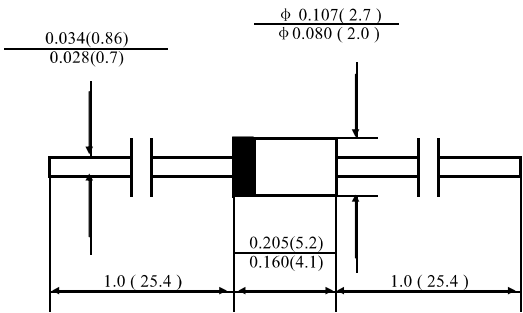


外形尺寸和印记 Outline Dimensions and Mark
DO-41



inch (mm)

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	BA		
				157	158	159
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		400	600	1000
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波 60Hz, 电阻负载, $T_a=50^{\circ}C$ 60Hz Half-sine wave, Resistance load, $T_a=50^{\circ}C$	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, $T_a=25^{\circ}C$ 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	30		
结温 Junction Temperature	T_J	$^{\circ}C$		-55~+125		
储存温度 Storage Temperature	T_{STG}	$^{\circ}C$		-55 ~ +150		

电特性 ($T_a=25^{\circ}C$ 除非另有规定)
Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		BA		
					157	158	159
正向峰值电压 Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.0A$		1.3		
反向峰值电流 Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	5		
	I_{RRM2}			$T_a=100^{\circ}C$	50		
反向恢复时间 Reverse Recovery time	t_r	ns	$I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$		300	300	300
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	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

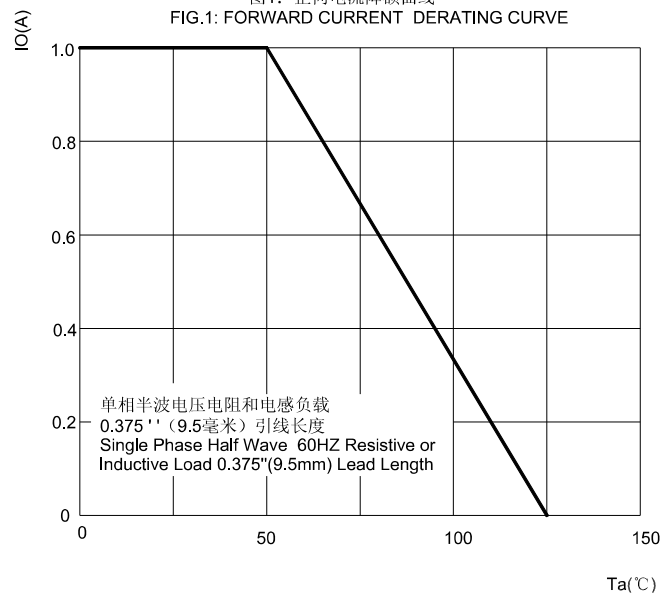


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

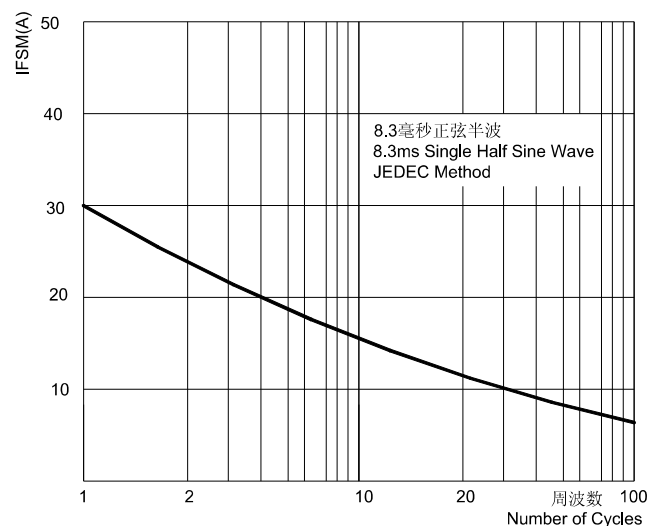


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

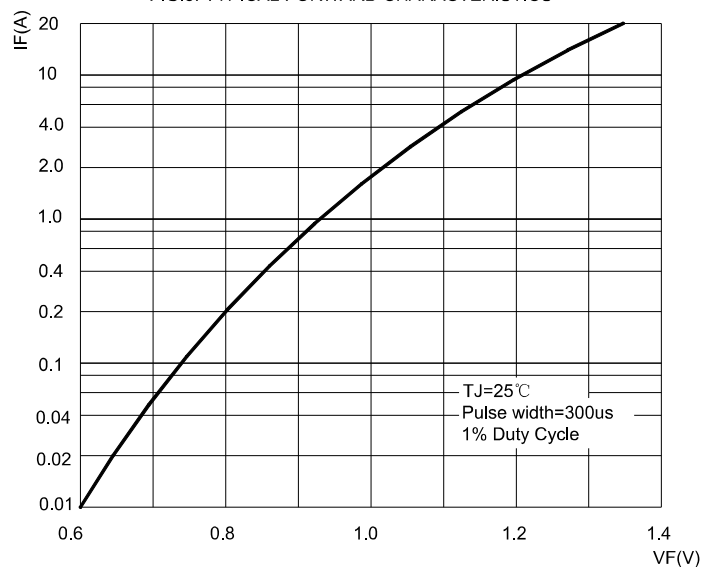


图4: 典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS

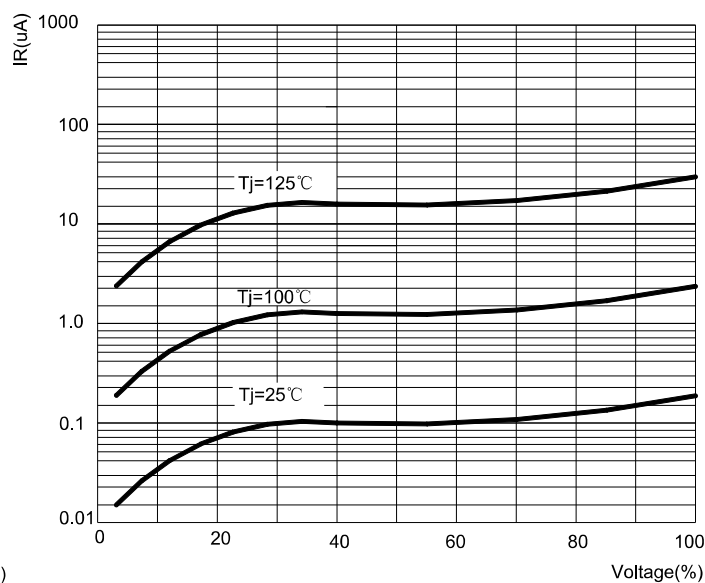


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

