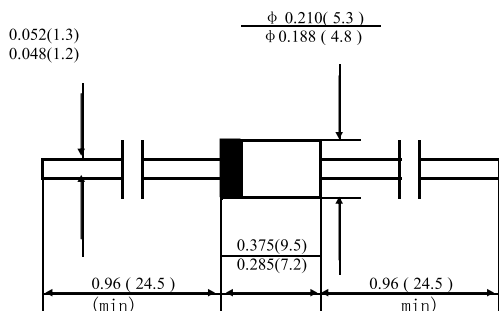


■外形尺寸和印记 Outline Dimensions and Mark

DO-27



inch ( mm )

■特征 Features

- $I_o$  5.0A
- VRRM 150-200V
- 耐正向浪涌电流能力高
- High surge current capability

■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	SR5150	SR5200
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		150	200
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, $T_a=50^{\circ}C$	5.0	
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, $T_a=25^{\circ}C$	120	
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 (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	SR5150	SR5200
正向峰值电压 Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=5.0A$	0.90	
反向漏电流 Peak Reverse Current	$I_{R1}$	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.1
	$I_{R2}$			$T_a=100^{\circ}C$	10
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	结和环境之间 Between junction and ambient	25	
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	8	

■ 特性曲线 (典型)

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

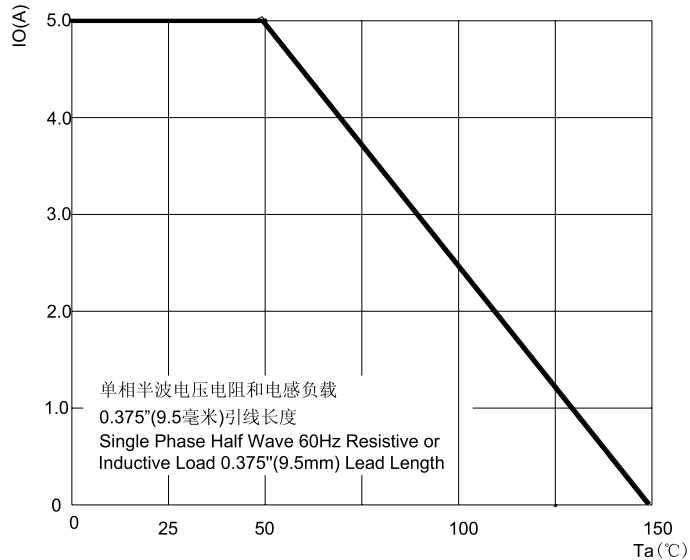


图2: 最大正向浪涌冲击耐受力  
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

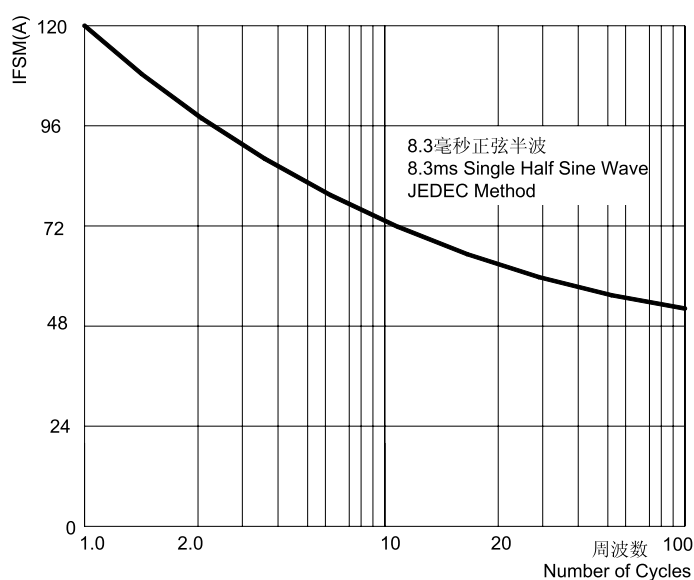


图3: 典型正向特性曲线  
FIG.3: TYPICAL FORWARD CHARACTERISTICS

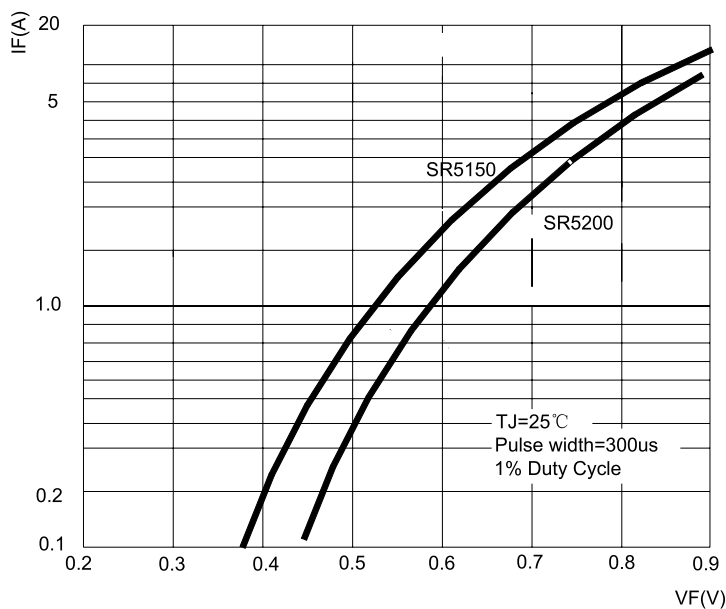


图4: 典型反向特性曲线  
FIG.4: TYPICAL REVERSE CHARACTERISTICS

