



SR520 THRU SR5100

肖特基二极管 Schottky Rectifier

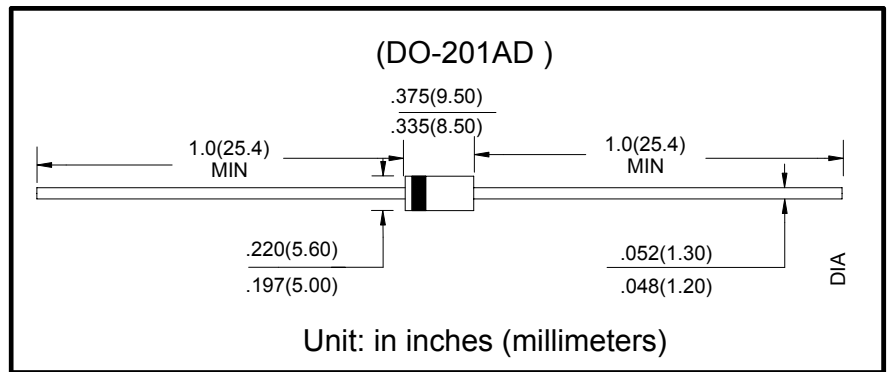
■特征 Features

- I_o 5.0A
- VRRM 20V-100V
- 耐正向浪涌电流能力高
- High surge current capability

■用途 Applications

- 整流用 Rectifier

■外形尺寸和印记 Outline Dimensions and Mark



■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	SR5						
				20	30	40	50	60	80	100
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100
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, $T_a=50^\circ\text{C}$	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, $T_a=25^\circ\text{C}$ 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	120						
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（ $T_a=25^\circ\text{C}$ 除非另有规定）

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		SR5						
					20	30	40	50	60	80	100
正向峰值电压 Peak Forward Voltage	V _{FM}	V	I _{FM} =5.0A		0.55			0.7		0.85	
反向峰值电流 Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.1						
	T _a =125℃			10							
热阻(典型) Thermal Resistance(Typical)	R _{θJ-A}	℃/W	结和环境之间 Between junction and ambient		25						
	R _{θJ-L}		结和引线之间 Between junction and lead		8						

■特性曲线（典型） Characteristics(Typical)

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

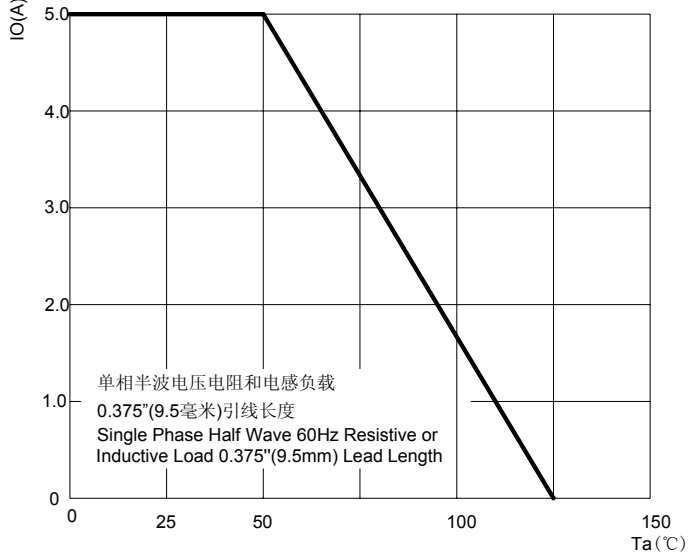


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

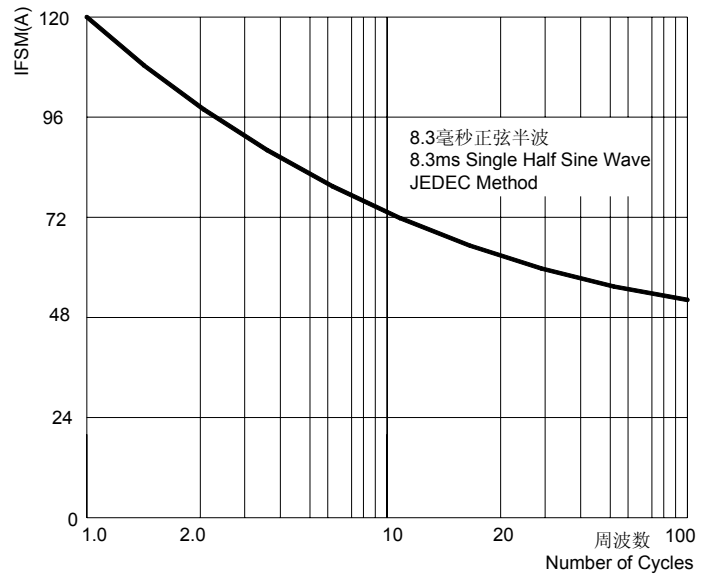


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

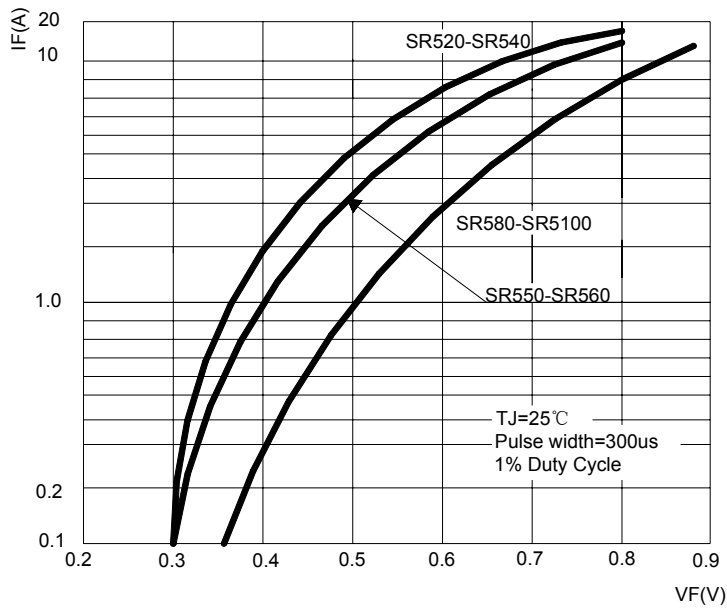


图4: 典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS

