

硅整流二极管 General Purpose Rectifier

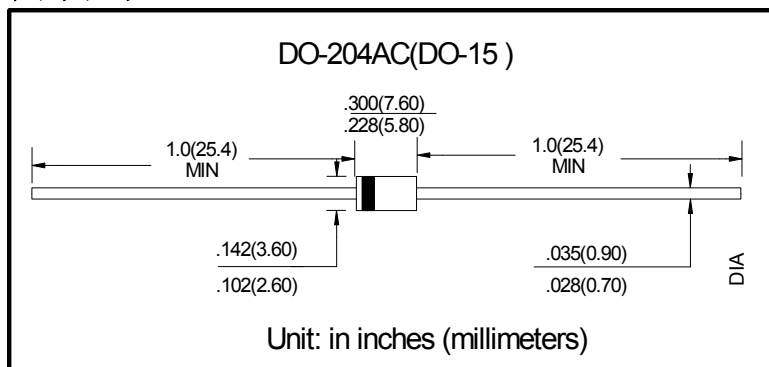
■特征 Features

- I_o 0.2A
- VRRM 5000V
- 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	R5000
反向重复峰值电压 Repetitive Peak Reverse Voltage	VRRM	V		5000
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, $T_a=50^\circ\text{C}$)	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, $T_a=25^\circ\text{C}$) (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	$I_{FM}=0.2A$	4.0
反向峰值电流 Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_a=25^\circ\text{C}$	5
	I_{RRM2}		$T_a=125^\circ\text{C}$	50
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	130

■ 特性曲线 (典型) Characteristics(Typical)

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

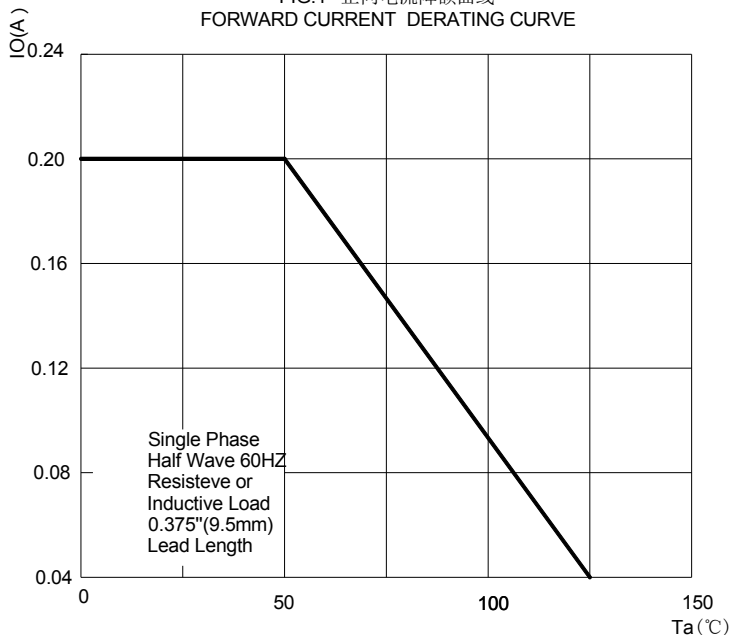


FIG.2 最大正向浪涌冲击耐受能力
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

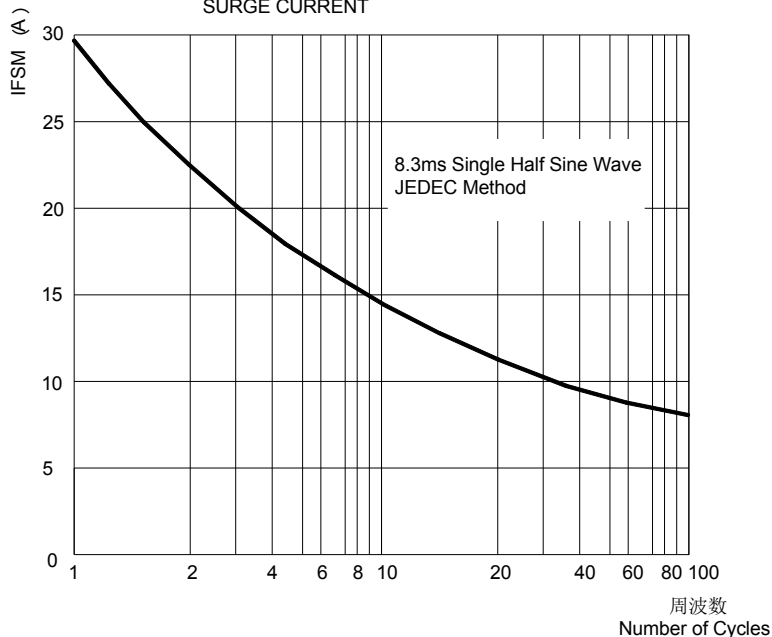


FIG.3: 典型正向特性曲线
L FORWARD CHARACTERISTICS

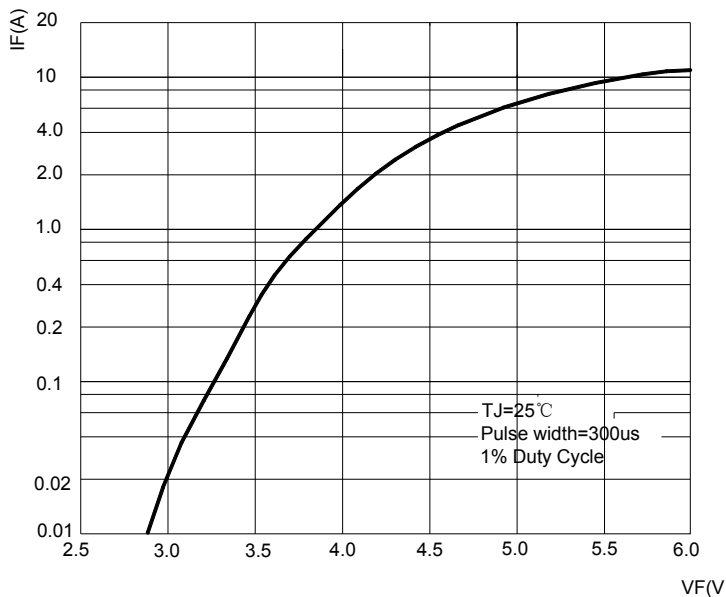


FIG.4典型反向特性曲线
TYPICAL REVERSE CHARACTERISTICS

