



S1M

硅整流二极管 General Purpose Rectifier

特征 Features

I_o 1A
 VRRM 1000V
 耐正向浪涌电流能力高
 High surge current capability

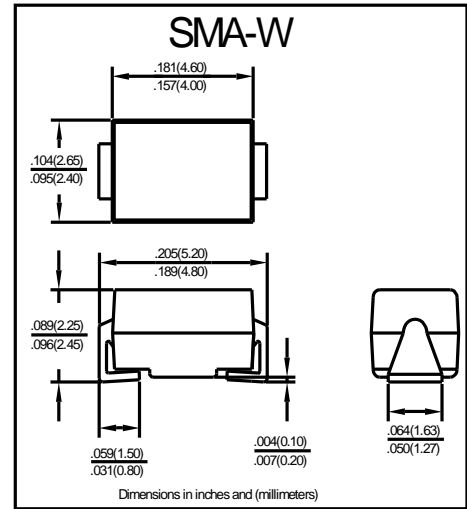
用途 Applications

整流用 Rectifier

极限值 (绝对最大额定值)

Limiting Values (Absolute Maximum Rating)

外形尺寸和印记 Outline Dimensions and Mark



参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	S1M
反向重复峰值电压 Repetitive Peak Reverse Voltage	VRRM	V		1000
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	(正弦半波 60HZ, 电阻负载, $T_a=50$); (60HZ Half-sine wave, Resistance load, $T_a=50$)	1
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, $T_a=25$) (60HZ Half-sine wave, 1 cycle, $T_a=25$)	30
结温 Junction Temperature	T_j			-55~+150
储存温度 Storage Temperature	T_{stg}			-55 ~ +150

电特性 (Ta=25 除非另有规定)

Electrical Characteristics (Ta=25 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	$I_{FM}=1A$	1.1	
反向峰值电流 Peak Reverse Current	I _{RRM1}	mA	VRM=VRRM	T _a =25	5
	I _{RRM2}			T _a =125	50
热阻(典型) Thermal Resistance(Typical)	R _{θj-A}		结和环境之间 Between junction and ambient	55	
	R _{θj-L}		结和引线之间 Between junction and lead	25	

特性曲线(典型) Characteristics(Typical)

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

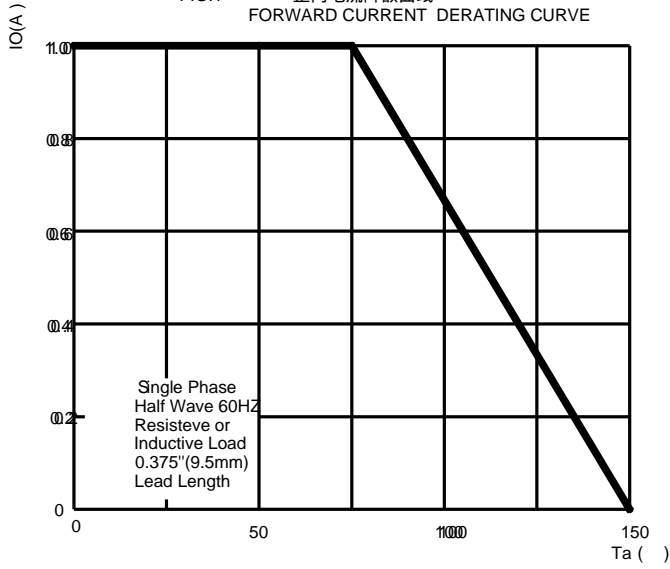


FIG.2 最大正向浪涌冲击耐受力
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

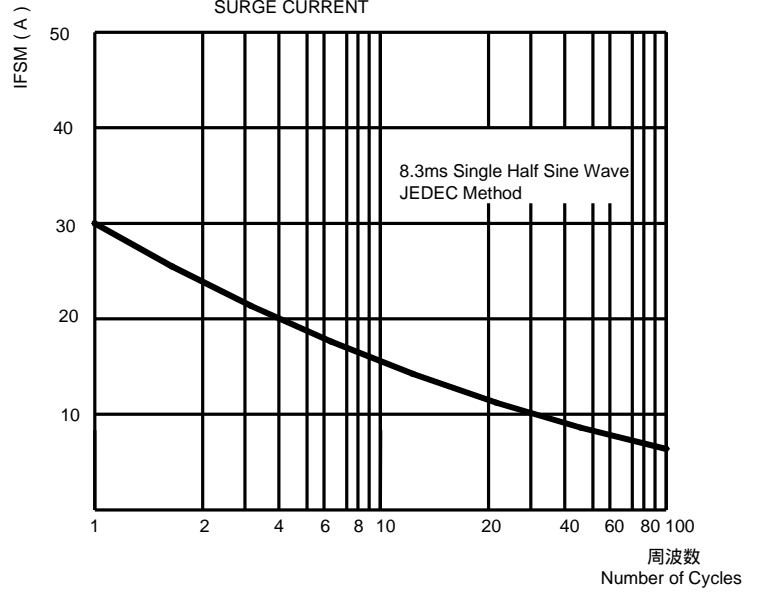


FIG.3 典型正向特性曲线
TYPICAL FORWARD CHARACTERISTICS

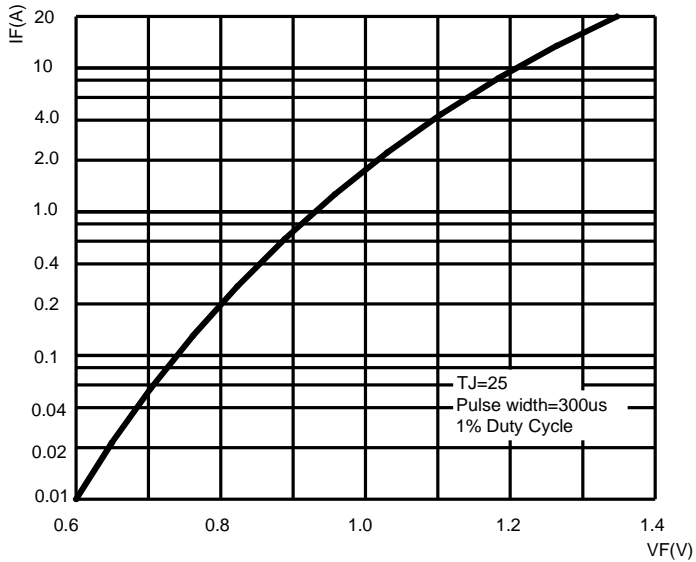


FIG.4 典型反向特性曲线
TYPICAL REVERSE CHARACTERISTICS

