



# 安徽富信半导体科技有限公司

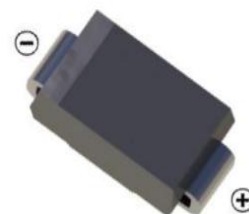
ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

US1A-US1M

## SMA Super Fast Recovery Diode 特快恢复二极管

### ■ Features 特点

- High current capability 高电流能力
- Low forward voltage drop 低正向压降
- Super Fast Recovery time 特快恢复时间
- Surface mount device 表面贴装器件
- Case 封装:SMA



### ■ Maximum Rating 最大额定值

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

Characteristic 特性参数	Symbol 符号	US 1A	US 1B	US 1D	US 1G	US 1J	US 1K	US 1M	Unit 单位
Repetitive Peak Reverse Voltage 重复峰值反向电压	$V_{RRM}$	50	100	200	400	600	800	1000	V
DC Reverse Voltage 直流反向电压	$V_R$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Forward Rectified Current 正向整流电流	$I_F$	1							A
Peak Surge Current 峰值浪涌电流	$I_{FSM}$	30							A
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	50							$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	$T_J, T_{stg}$	-50to+150 $^{\circ}\text{C}$							$^{\circ}\text{C}$

### ■ Electrical Characteristics 电特性

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

Characteristic 特性参数	Symbol 符号	US1A-US1D	US1G	US1J-US1M	Unit 单位	Condition 条件
Forward Voltage 正向电压	$V_F$	1.0	1.3	1.65	V	$I_F=1\text{A}$
Reverse Current 反向电流	$I_R$	5( $T_A=25^{\circ}\text{C}$ ) 100( $T_A=125^{\circ}\text{C}$ )			$\mu\text{A}$	$V_R=V_{RRM}$
Reverse Recovery Time 反向恢复时间	$T_{rr}$	50	75		nS	$I_F=0.5\text{A}, I_R=1\text{A}$ $I_{rr}=0.25\text{A}$
Junction Capacitance 结电容	$C_J$	15			pF	$V_R=4\text{V}, f=1\text{MHz}$

## ■ Typical Characteristic Curve 典型特性曲线

Fig.1 Forward Current Derating Curve

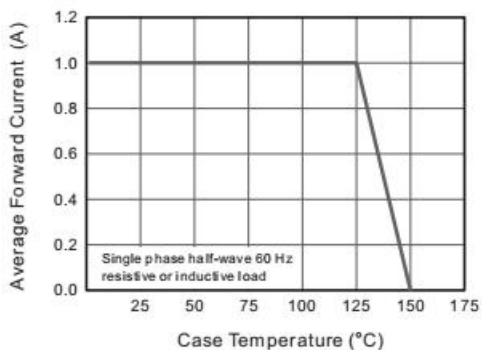


Fig.2 Typical Reverse Characteristics

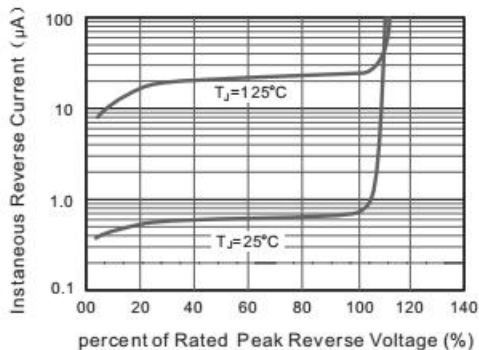


Fig.3 Typical Forward Characteristics

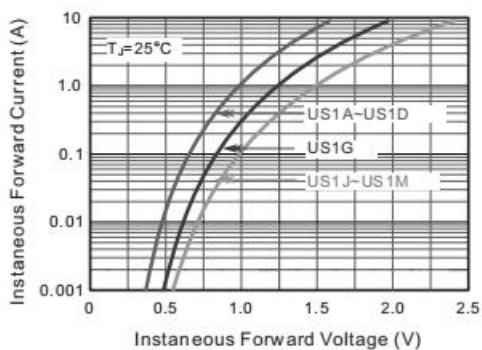
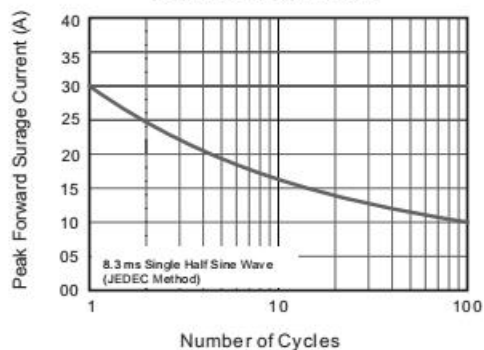
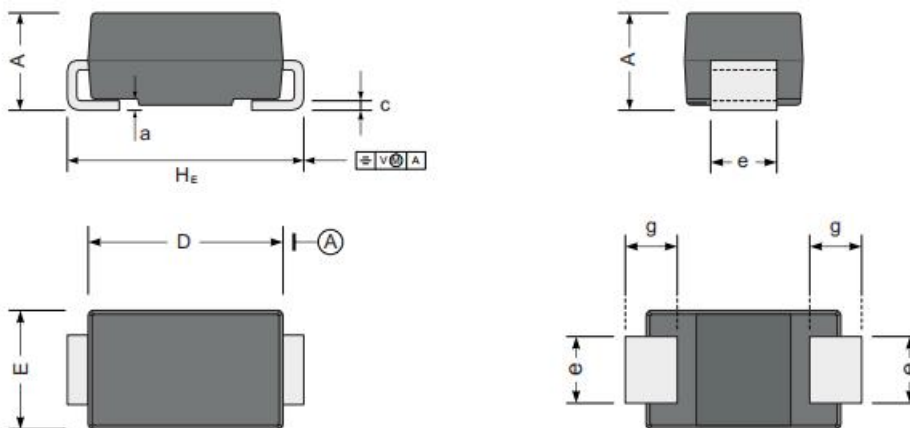


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



## ■ Dimension 外形封装尺寸



UNIT		A	D	E	He	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

单击下面可查看定价，库存，交付和生命周期等信息

[>>FOSAN\(富信\)](#)