



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

ES2AA-ES2JA

SMA Super Fast Recovery Diode 超快恢复二极管

■Features 特点

- Fast Switching Speed 快的开关速度
- Super Fast Recovery time 超快恢复时间
- Glass passivated chip junction 玻璃钝化芯片保护结
- Surface Mount Device 表面贴装器件
- Case 封装:SMA(DO-214AC)



■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°C)

Characteristic 特性参数	Symbol 符号	ES 2AA	ES 2BA	ES 2CA	ES 2DA	ES 2EA	ES 2GA	ES 2JA	Unit 单位
Marking 印字		ES 2A	ES 2B	ES 2C	ES 2D	ES 2E	ES 2G	ES 2J	
Repetitive Peak Reverse Voltage 重复峰值反向电压	V_{RRM}	50	100	150	200	300	400	600	V
DC Reverse Voltage 直流反向电压	V_R	50	100	150	200	300	400	600	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	35	70	105	140	210	280	420	V
Forward Rectified Current 正向整流电流	I_F	2							A
Peak Surge Current 峰值浪涌电流	I_{FSM}	60							A
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	90							$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	T_J, T_{stg}	-50to+150							$^{\circ}\text{C}$

■Electrical Characteristics 电特性

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

Characteristic 特性参数	Symbol 符号	ES2AA-ES2DA	ES2EA-ES2GA	ES2JA	Unit 单位	Condition 条件
Forward Voltage 正向电压	V_F	0.95	1.25	1.7	V	$I_F=2\text{A}$
Reverse Current 反向电流	I_R	$5(T_A=25^{\circ}\text{C})$ $500(T_A=100^{\circ}\text{C})$			μA	$V_R=V_{RRM}$
Reverse Recovery Time 反向恢复时间	T_{rr}	35			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	60			pF	$V_R=4\text{V}, f=1\text{MHz}$

Typical Characteristic Curve 典型特性曲线

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

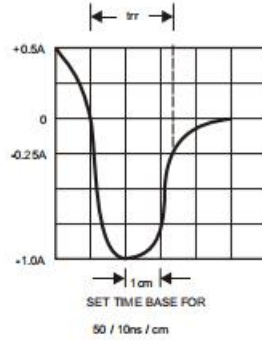
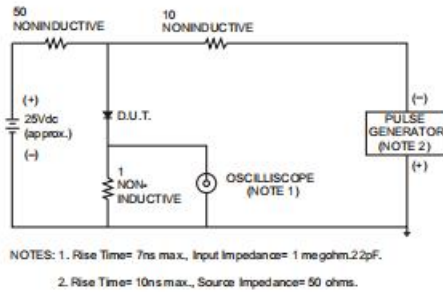


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

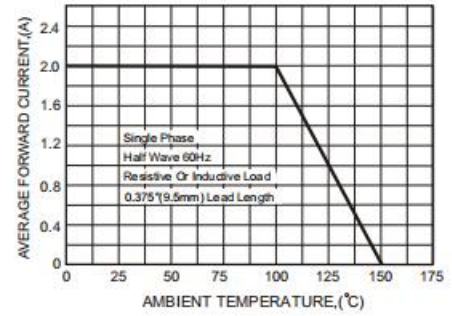


FIG.3-TYPICAL FORWARD CHARACTERISTICS

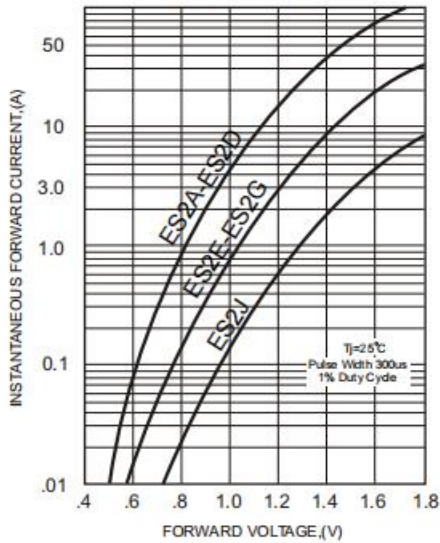


FIG.4-TYPICAL REVERSE CHARACTERISTICS

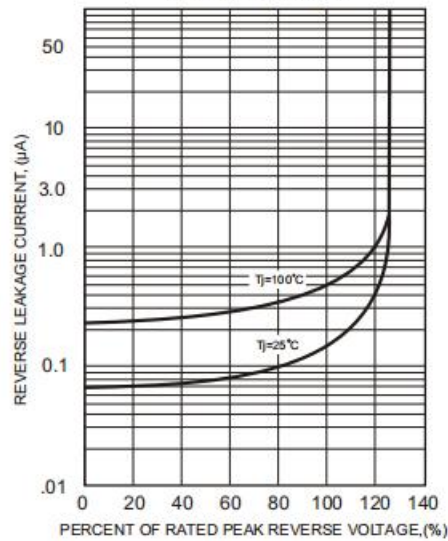


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

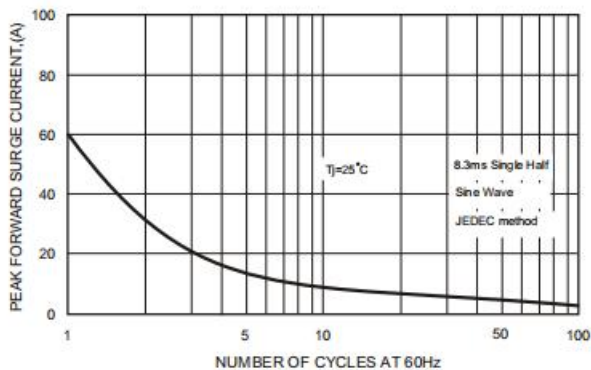
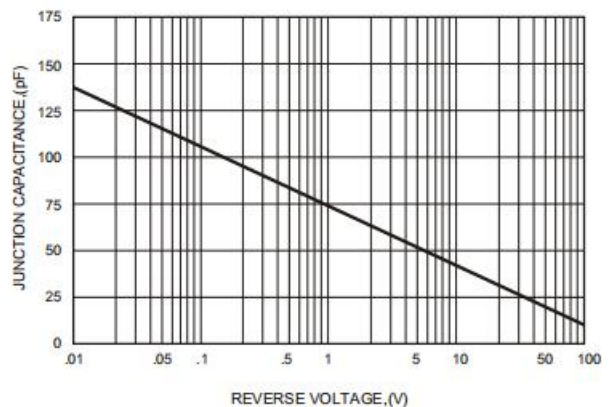
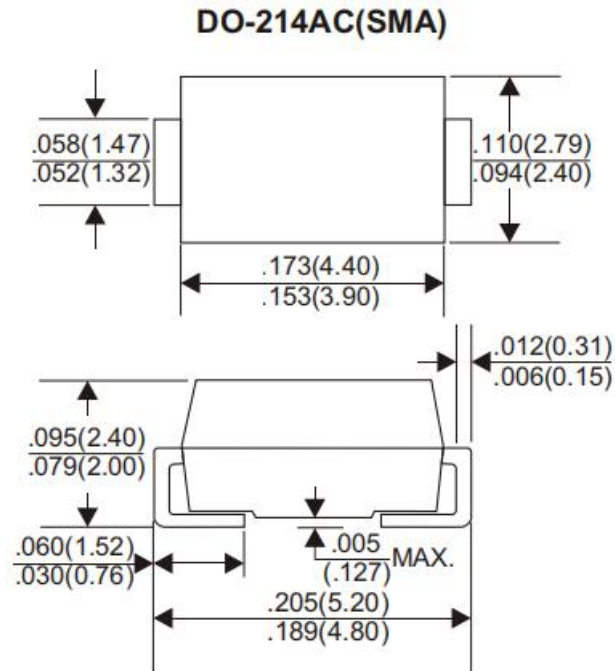


FIG.6-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸



Dimensions in inches and (millimeters)

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