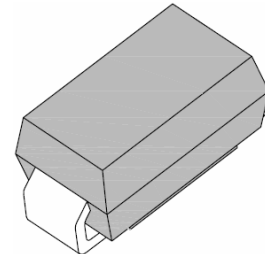


## 1.5A Surface Mount Rectifier

### Features

- Glass passivated junction
- Plastic package has underwriters laboratory flammability classification 94 V-0
- High temperature soldering: 250°C / 10 seconds at terminals
- RoHS compliant



(SMA)



### Mechanical Data

<b>Case:</b>	JEDEC DO-214AC (SMA) molded plastic
<b>Terminals:</b>	Solder plated, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	cathode end indicated by color band
<b>Weight:</b>	0.002 Ounce, 0.064 gram

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>AV</sub></b>	Maximum Average Forward Rectified Current	1.5							A	TL=100°C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	50							A	8.3ms single half sine-wave superimposed on rated load (JEDEC) @TL=100°C
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-55 to 150							°C	

**Note:** Single phase half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

# 1.5A Surface Mount Rectifier

## S2AA-S2MA

### Characteristics ( $T_{Ambient}=25^{\circ}\text{C}$ unless noted)

Symbol	Description	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	Unit	Conditions
$V_F$	Maximum Instantaneous Forward Voltage	1.10							V	$I_F$ at 1.5 A
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	1.0							$\mu\text{A}$	$T_A = 25^{\circ}\text{C}$
		125								$T_A = 125^{\circ}\text{C}$
$T_{rr}$	Typical Reverse Recovery Time	2.0							$\mu\text{S}$	$I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$
$C_J$	Typical Junction Capacitance	30							pf	At 1.0 MHz and $V_r = 4.0\text{V}$
$R_{\theta-JL}$	Maximum Thermal Resistance	16							$^{\circ}\text{C/W}$	Mounted on 0.27" x 0.27" (7mmx7mm) copper pad area
$R_{\theta-JA}$		53								

Note: Single phase half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

### Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

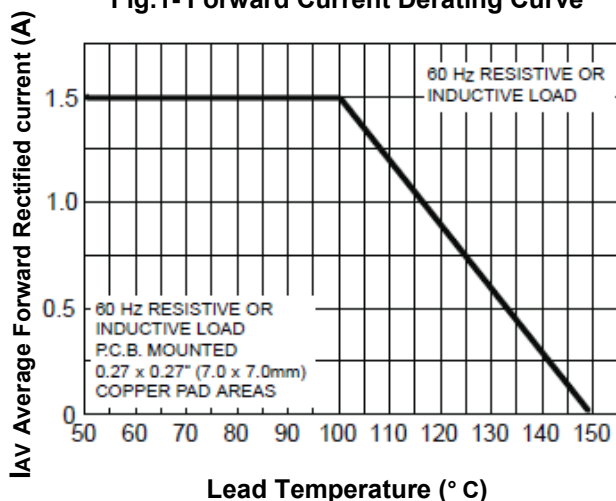
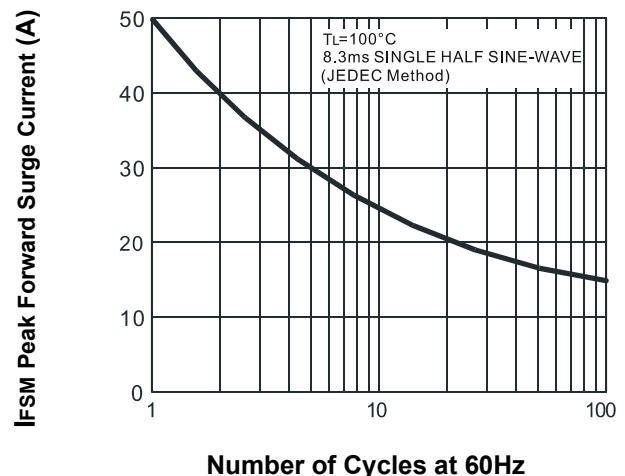


Fig.2-Max. Non-Repetitive Forward Surge Current



# 1.5A Surface Mount Rectifier

## S2AA-S2MA

Fig.3- Typical Instantaneous Forward Characteristics

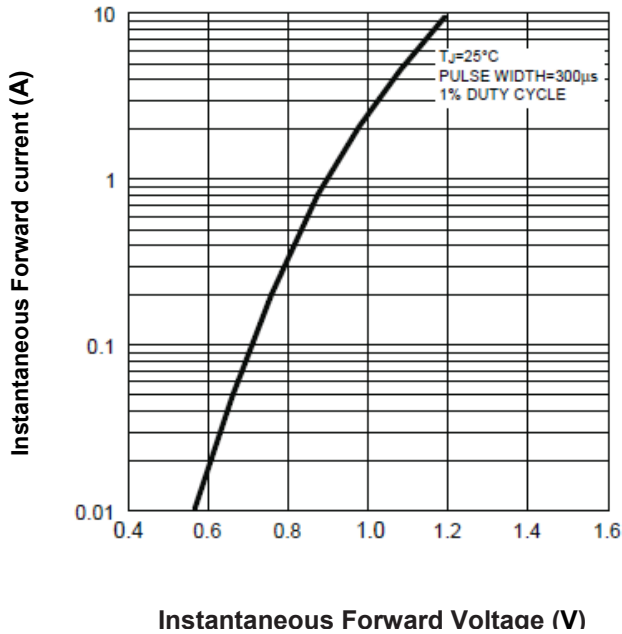


Fig.4- Typical Reverse Characteristics

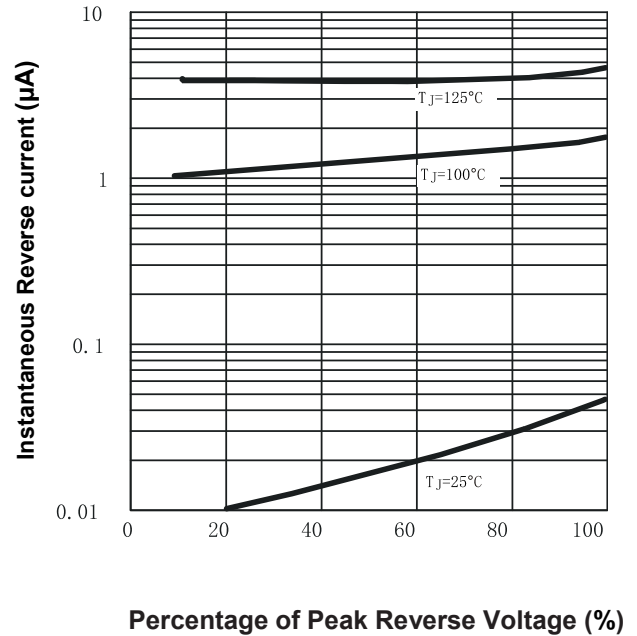
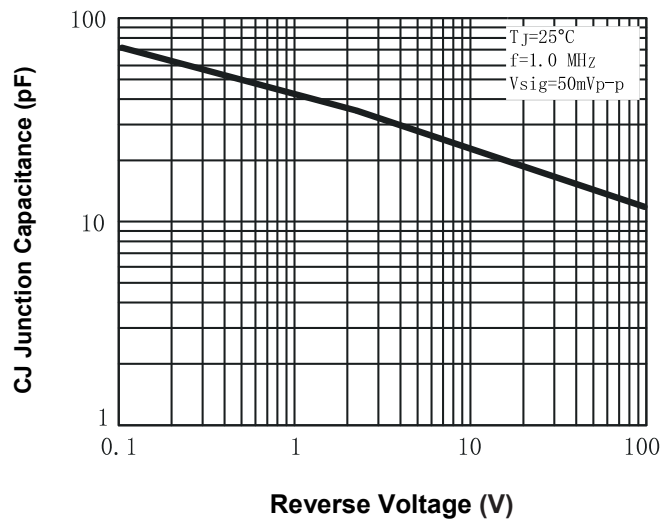


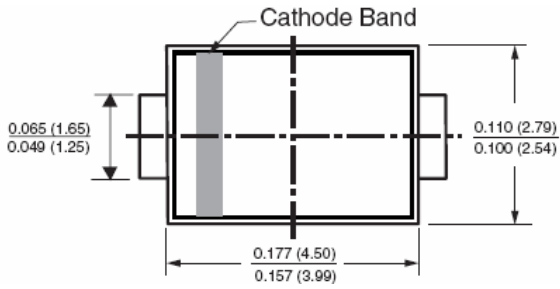
Fig.5- Junction Capacitance



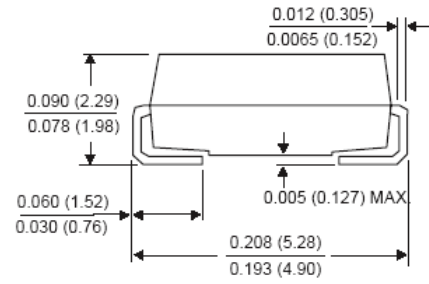
# 1.5A Surface Mount Rectifier

## S2AA-S2MA

### Dimensions in inches (mm)



DO214AC  
(SMA)



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