

### 3.0A Surface Mount Schottky Rectifier

#### Features

- Low profile surface mount package
- Built-in strain relief
- High switching speed
- Low voltage drop, high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS compliant



SMA  
(DO-214AC)



#### Mechanical Data

<b>Case:</b>	JEDEC DO-214AC, Molded plastic body
<b>Terminals:</b>	Solder plated, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes the cathode end
<b>Weight:</b>	0.002 ounce, 0.064 gram

#### Maximum Ratings & Electrical Characteristics *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbols	Description	SS 32A	SS 33A	SS 34A	SS 35A	SS 36A	SS 38A	SS 39A	SS 310A	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	80	90	100	V	
<b>VRMS</b>	Maximum RMS Voltage	14	21	28	33	42	56	63	70	V	
<b>VDC</b>	Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V	
<b>I(AV)</b>	Maximum Average Forward Rectified Current (FIG.1)	3.0								A	TL=105° C
<b>IFSM</b>	Peak Forward Surge Current	80								A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>VF</b>	Maximum Instantaneous Forward Voltage at 3.0A	0.50			0.75		0.8		5	V	Note1
<b>IR</b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	0.5 T								mA	A=25 °C
		20			10						TA=100 °C
<b>RθJA</b> <b>RθJL</b>	Typical Thermal Resistance	55								° C/W	Note 2
		12									

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## SS32A - SS310A

Symbols	Description	SS 32A	SS 33A	SS 34A	SS 35A	SS 36A	SS 38A	SS 39A	SS 310A	Unit	Conditions
T <sub>J</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature Range	-55 to +150								°C	

- Note:** 1. Pulse test: 300µs pulse width, 1% duty cycle.  
 2. PCB mounted with 0.55" x 0.55" (14mm x 14mm) copper pads.

### Typical Characteristics Curves

Fig.1- Typical Forward Current Derating Curve

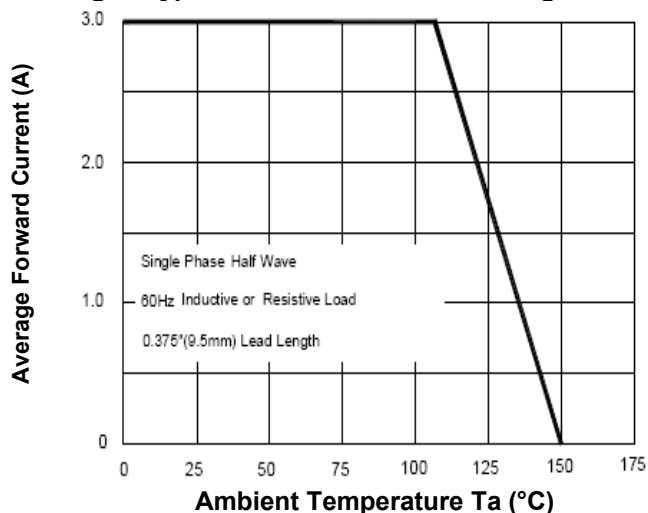


Fig.2- Max. Non-Repetitive Peak Forward Surge Current

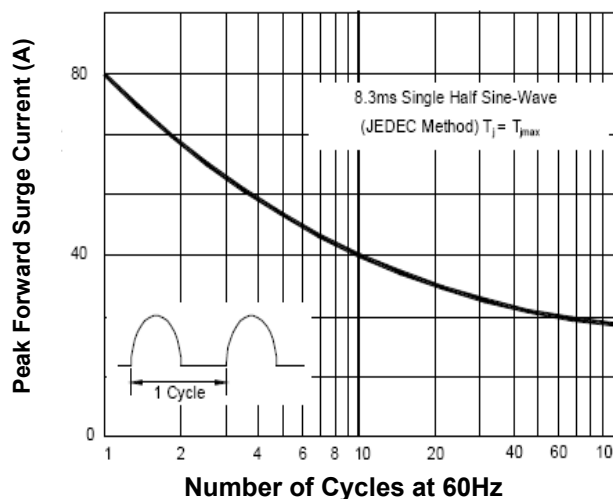


Fig.3- Typical Instantaneous Forward Characteristics

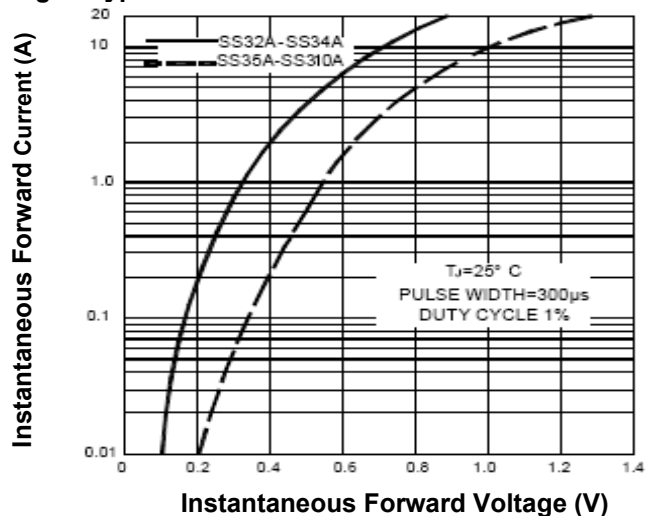
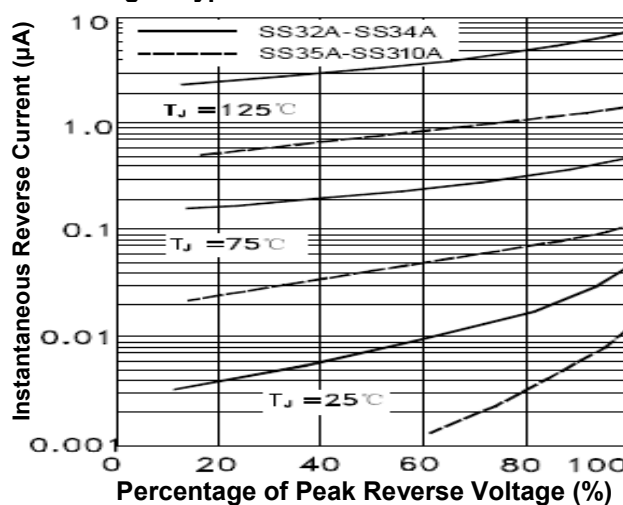


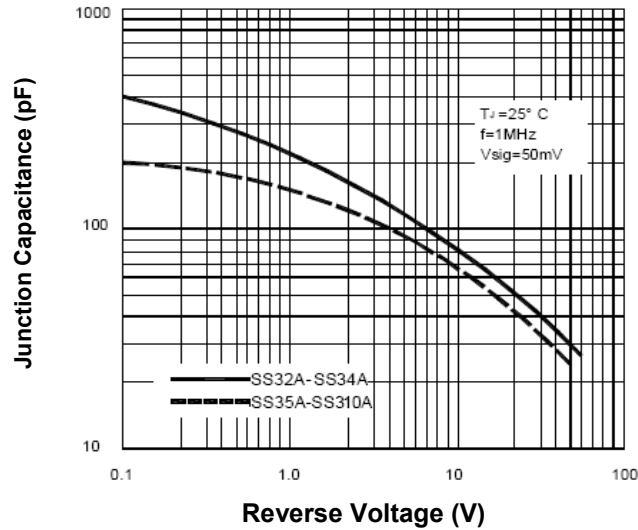
Fig.4- Typical Reverse Characteristics



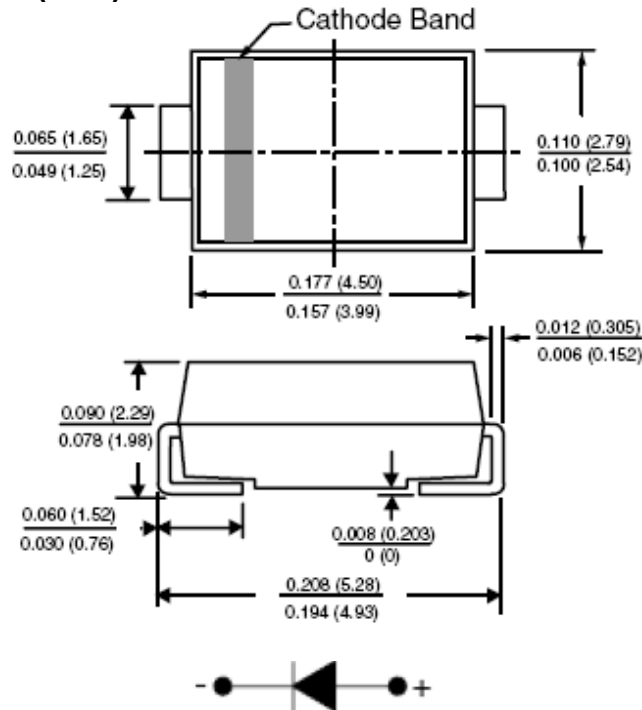
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## SS32A - SS310A

Fig.5- Typical Junction Capacitance



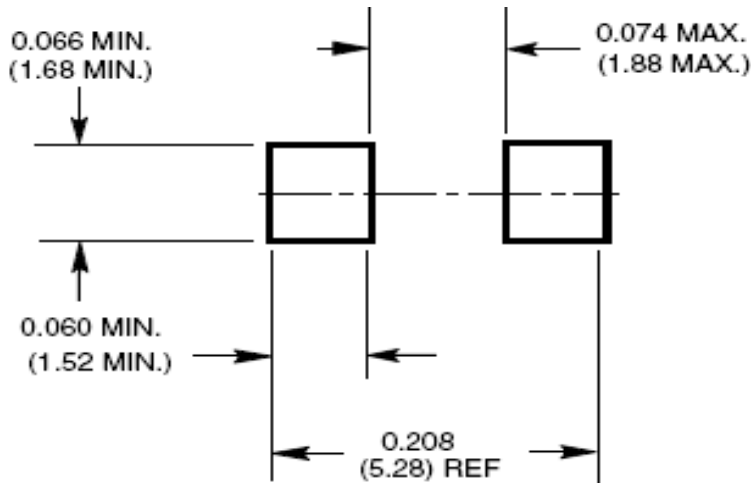
### Dimensions in inch (mm)



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SS32A - SS310A

### Soldering Pad in inch (mm)



**SMA**

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