

## Surface Mount Schottky Rectifier

## SS32A—SS320A

### Features

- ◆ Low profile package
- ◆ Ideal for automated placement
- ◆ Guardring for overvoltage protection
- ◆ Low power losses, high efficiency
- ◆ High forward surge capability



### Mechanical Data

**Case:** DO-214AC(SMA) Molded plastic body

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Cathode line denotes the cathode end

**Mounting Position:** Any

### Maximum Ratings & Electrical Characteristics

Ratings at TA = 25°C unless otherwise specified

Characteristic	Symbol	SS32A	SS34A	SS36A	SS38A	SS310A	SS315A	SS320A	Units
Peak repetitive reverse voltage	VRRM	20	40	60	80	100	150	200	V
RMS reverse voltage	VRMS	14	28	42	56	70	105	140	V
DC blocking voltage	VDC	20	40	60	80	100	150	200	V
Maximum average forward output current	IF(AV)	3							A
Peak forward surge current, 8.3ms single half-sine-wave, @TJ = 25°C	IFSM	80							A
Rating for fusing(t<8.3ms)	I2t	26.56							A2sec
Maximum instantaneous forward voltage @ 3A	VF	0.55	0.7	0.85	0.9			V	
Maximum Reverse current Rated VR @TA =25°C	IR	0.5			0.1			mA	
		20			5				

### Thermal Characteristics

Characteristic	Symbol	SS32A	SS34A	SS36A	SS38A	SS310A	SS315A	SS320A	Units
Typical thermal resistance (Note 1)	R θJA	55							°C /W
	R θJL	17							
Operating junction temperature range	TJ	-55~+125			-55~+150			°C	
Storage temperature range	TSTG	-55~+150							°C

Note:

(1) Units mounted on P.C.B. with 5.0 x 5.0 mm land areas.

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## Ratings and Characteristic Curves ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

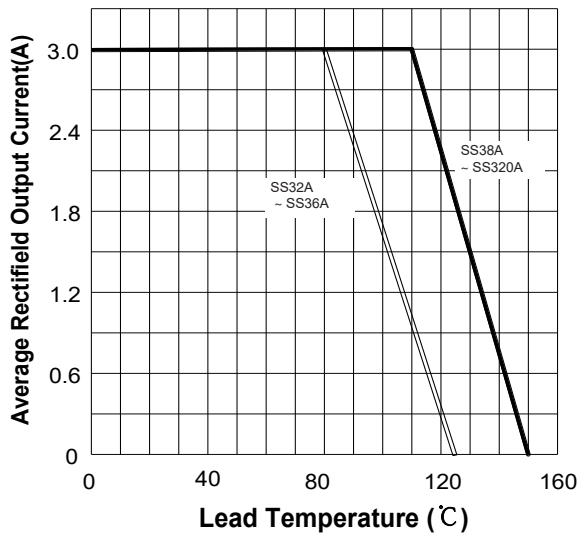


Fig.2- Surge Current Derating Curve

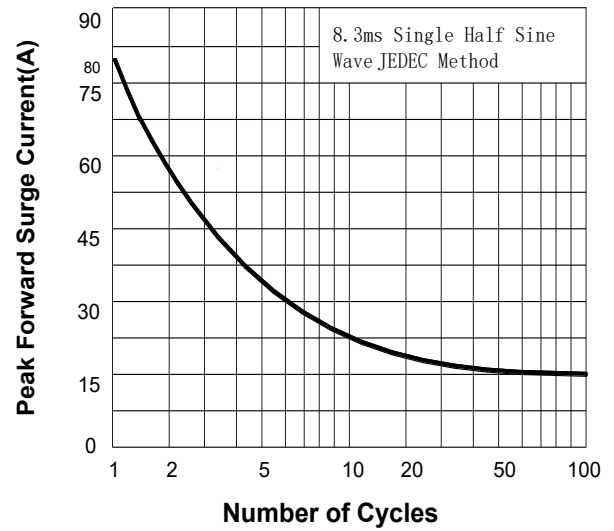


Fig.3- Typical Forward Voltage Characteristic

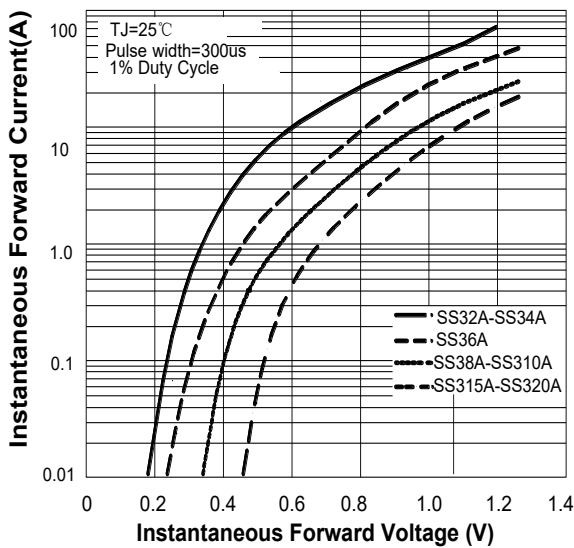
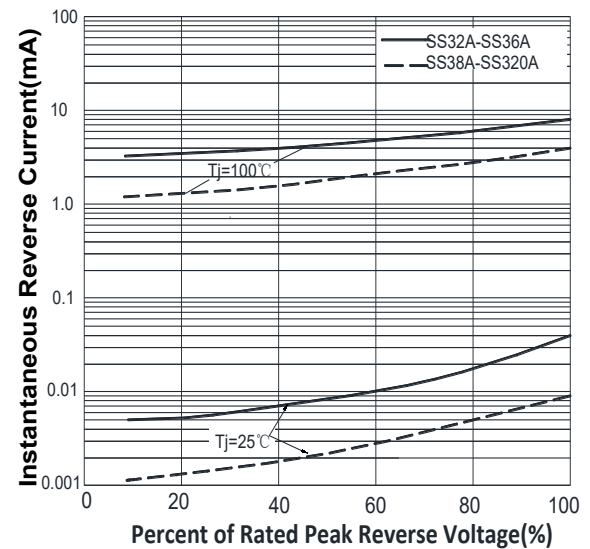


Fig.4- Typical Reverse Characteristic

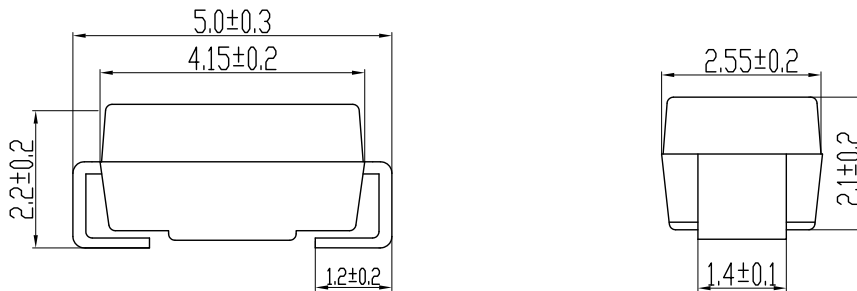


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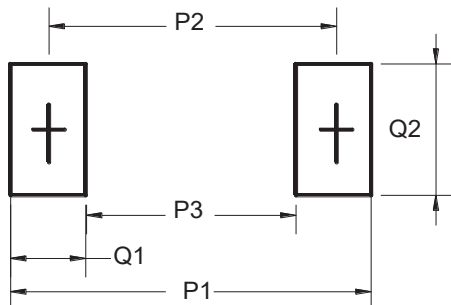
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### Package Outline Dimensions(unit:mm)

#### DO-214AC (SMA)



### Mounting Pad Layout(unit:mm)



Dim	Millimeters
P1	6.50
P2	4.00
P3	1.50
Q1	2.50
Q2	1.70

### Ordering Information

Part No.	Marking	Package	Shipping
SS32A	SS32A	SMA	5000PCS /Tape&Reel
SS34A	SS34A	SMA	5000PCS /Tape&Reel
SS36A	SS36A	SMA	5000PCS /Tape&Reel
SS38A	SS38A	SMA	5000PCS /Tape&Reel
SS310A	SS310A	SMA	5000PCS /Tape&Reel
SS315A	SS315A	SMA	5000PCS /Tape&Reel
SS320A	SS320A	SMA	5001PCS /Tape&Reel