

# SS32A THRU SS320A

## Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 200 V

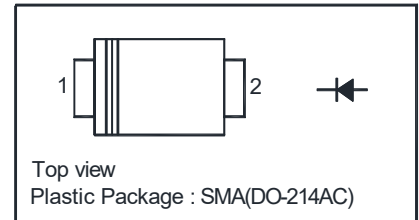
Forward Current - 3 A

### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability, low forward voltage drop

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Mechanical Data

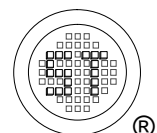
- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** color band denotes cathode end

### Maximum Ratings and Electrical Characteristics

Ratings at  $T_a = 25^\circ\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20 %.

Parameter	Symbols	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	SS315A	SS320A	Unit	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3									A	
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	100									A	
Maximum Instantaneous Forward Voltage at 3 A	$V_F$	0.55			0.7		0.85		0.95		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	0.5					20					mA
Typical Thermal Resistance <sup>1)</sup>	$R_{\theta JA}$ $R_{\theta JL}$	55					17					$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	- 55 to + 125									$^\circ\text{C}$	
Storage Temperature Range	$T_{stg}$	- 55 to + 150									$^\circ\text{C}$	

<sup>1)</sup> P.C.B. mounted with 0.55 X 0.55 " (14 X 14 mm) copper pad areas.



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## Electrical Characteristics Curves

Fig.1 Forward Current Derating Curve

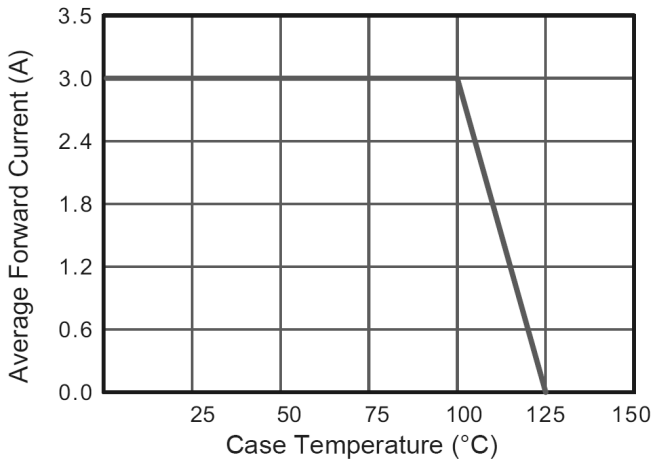


Fig.2 Typical Reverse Characteristics

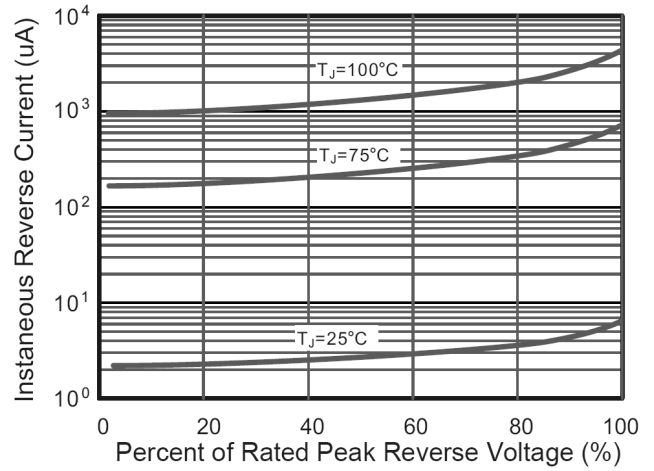


Fig.3 Typical Forward Characteristic

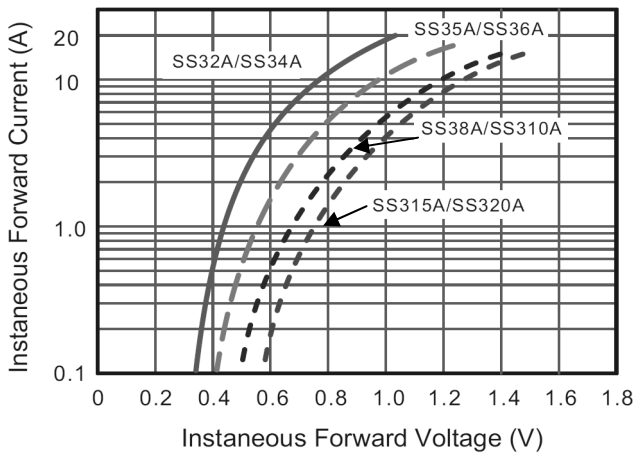


Fig.4 Typical Transient Thermal Impedance

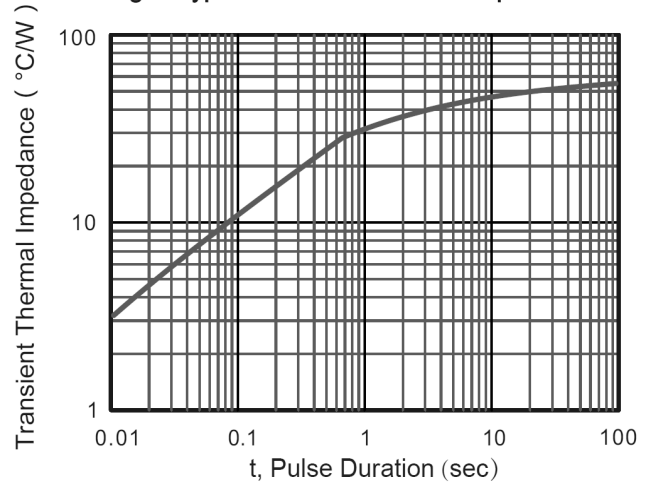
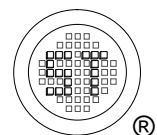
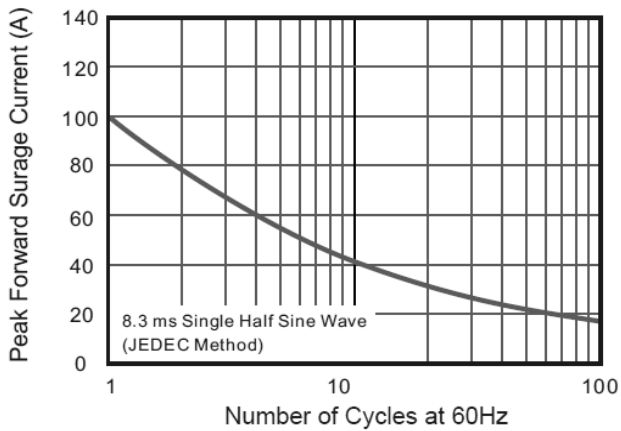


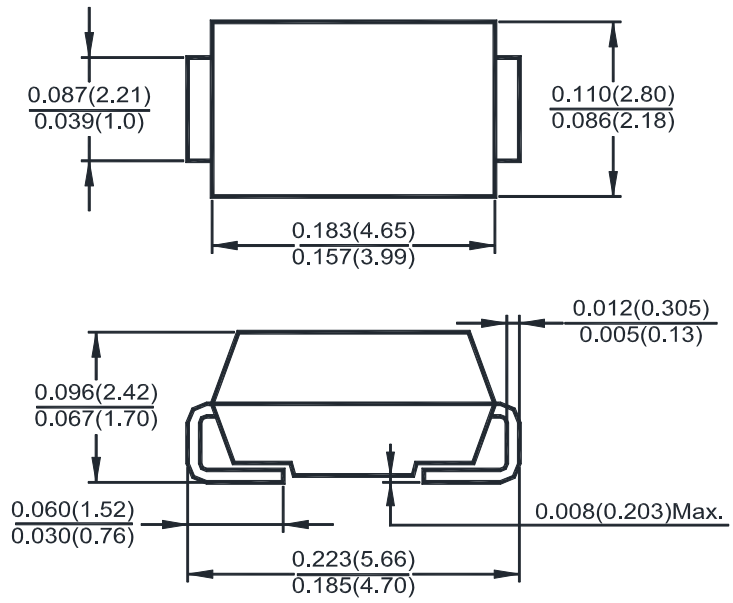
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



# SS32A THRU SS320A

Package Outline Dimensions in inches (millimeters)

SMA(DO-214AC)



## Marking information

Part No.	Marking Code.	Part No.	Marking Code.
SS32A	SS32A	SS38A	SS38A
SS33A	SS33A	SS310A	SS310A
SS34A	SS34A	SS315A	SS315A
SS35A	SS35A	SS320A	SS320A
SS36A	SS36A		



" III " = Cathode line

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