

# SK32A THRU SK3AA-HAF

## Surface Mount Schottky Barrier Rectifiers

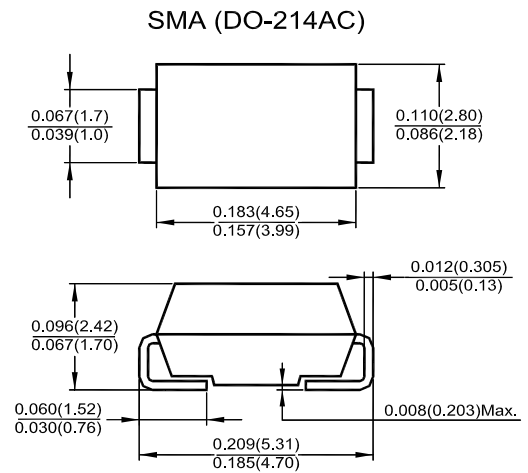
Reverse Voltage - 20 to 100 V  
Forward Current - 3 A

### 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
- Halogen and Antimony Free(HAF), RoHS compliant

### Mechanical Data

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



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20%

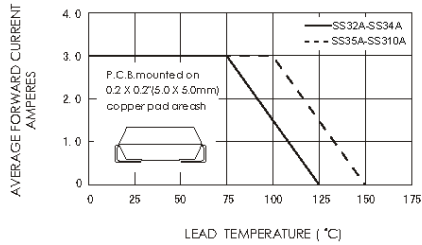
Parameter	Symbols	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK3AA	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	100							A
Maximum Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	0.55			0.7		0.85		V
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> = 100 °C	I <sub>R</sub>	0.5							mA
		20							
Typical Thermal Resistance <sup>1)</sup>	R <sub>θJA</sub>	55							°C/W
	R <sub>θJL</sub>	17							
Operating Junction Temperature Range	T <sub>j</sub>	- 55 to + 125							°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150							°C

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

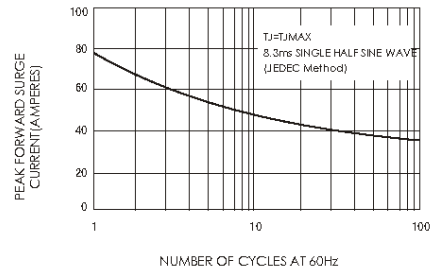
TOP DYNAMIC

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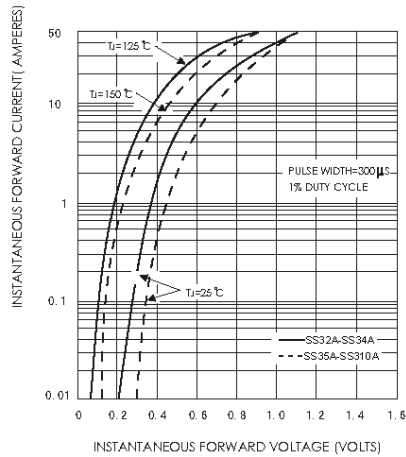
FORWARD CURRENT DERATING CURVE



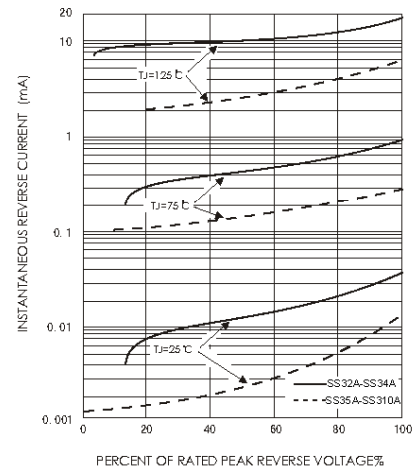
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



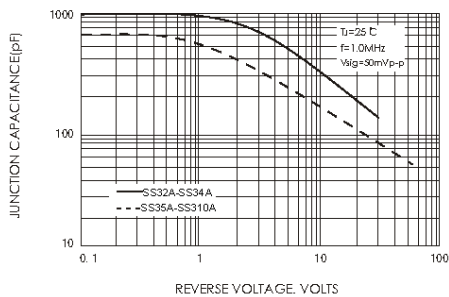
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



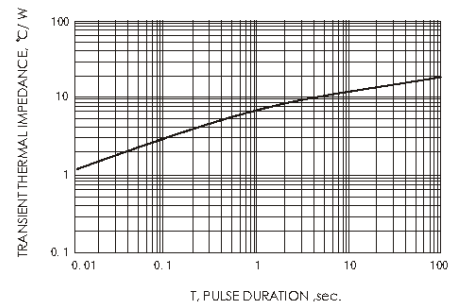
TYPICAL REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



TYPICAL TRANSIENT THERMAL IMPEDANCE



**TOP DYNAMIC**