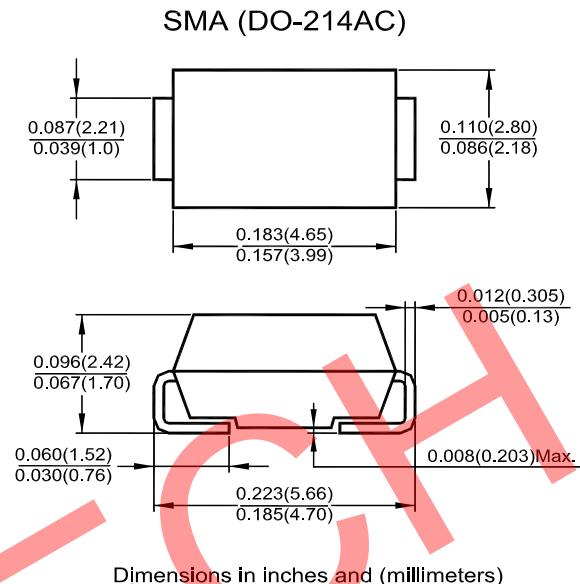


# SS32AD THRU SS310AD

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



## Mechanical Data

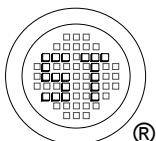
- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** color band denotes cathode end

## Maximum Ratings and Electrical Characteristics

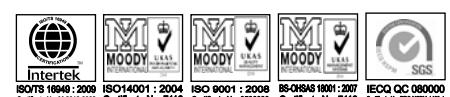
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS32AD	SS33AD	SS34AD	SS35AD	SS36AD	SS38AD	SS310AD	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	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		V
Maximum DC Reverse Current $T_a = 25^\circ C$ $T_a = 100^\circ C$	$I_R$			0.5	20				mA
Typical Thermal Resistance <sup>1)</sup>	$R_{\theta JA}$ $R_{\theta JL}$			55	17				°C/W
Operating Junction Temperature Range	$T_j$			- 55 to + 125					°C
Storage Temperature Range	$T_{stg}$			- 55 to + 150					°C

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

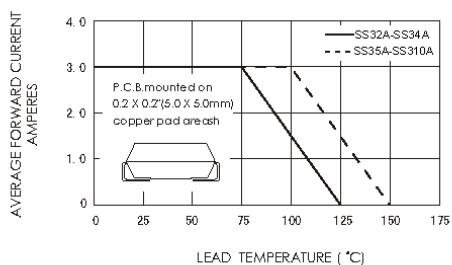


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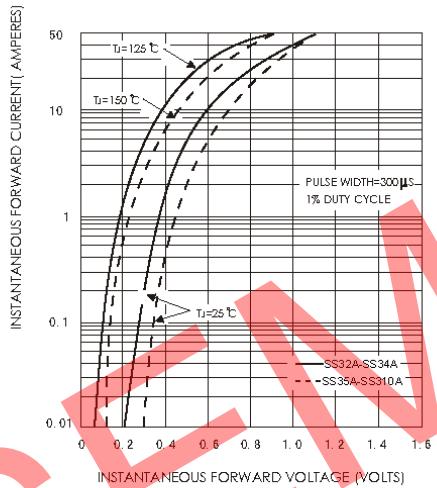


# SS32AD THRU SS310AD

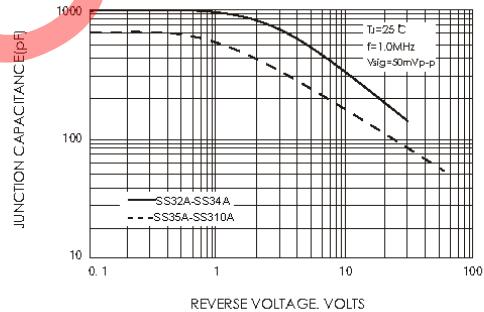
FORWARD CURRENT DERATING CURVE



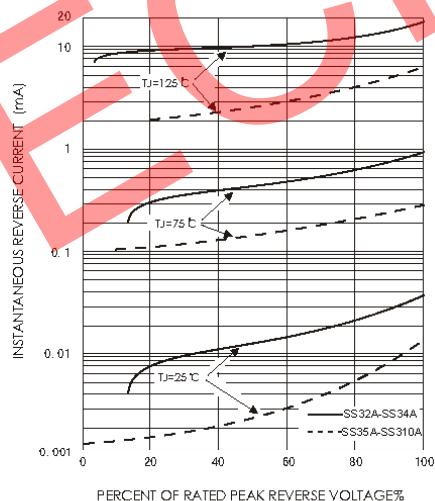
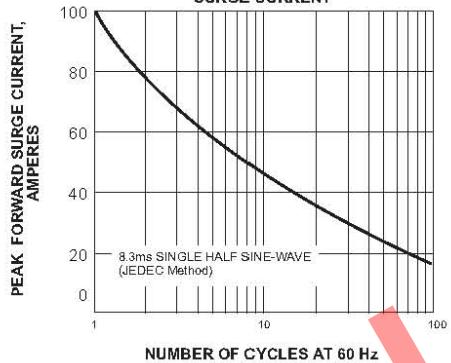
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



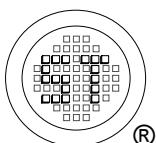
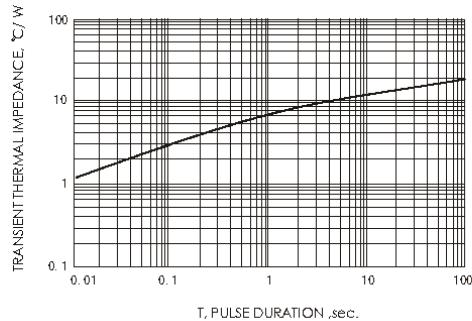
TYPICAL JUNCTION CAPACITANCE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL TRANSIENT THERMAL IMPEDANCE



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