

SS32A THRU SS310A-HAF

Surface Mount Schottky Barrier Rectifiers

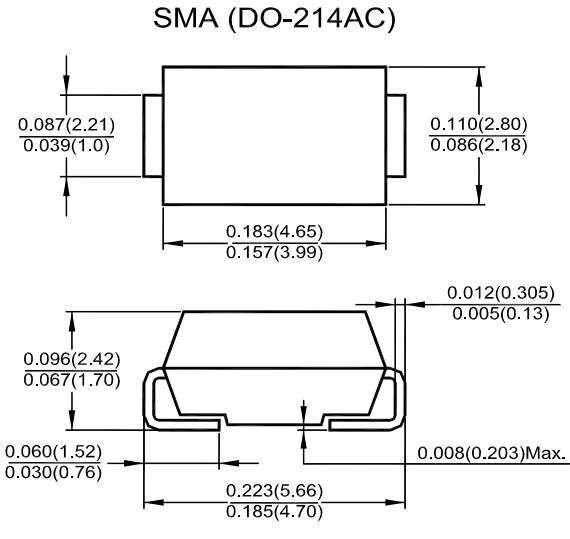
Reverse Voltage - 20 to 100 V
Forward Current - 3 A

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	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	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°C at Rated DC Blocking Voltage T _a = 100°C	I _R	0.5 20							mA				
Typical Thermal Resistance ¹⁾	R _{θJA} R _{θJL}	55 17							°C/W				
Operating Junction Temperature Range	T _j	- 55 to + 125							°C				
Storage Temperature Range	T _{stg}	- 55 to + 150							°C				

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

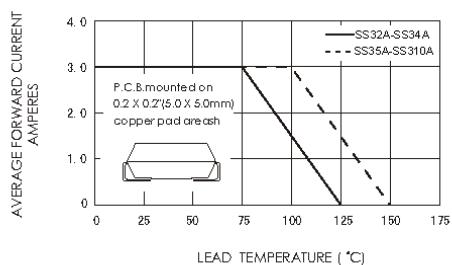
TOP DYNAMIC



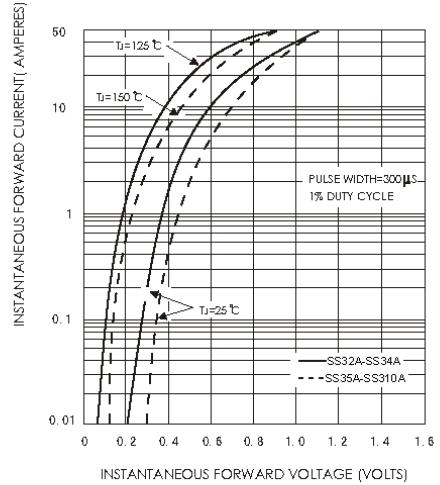
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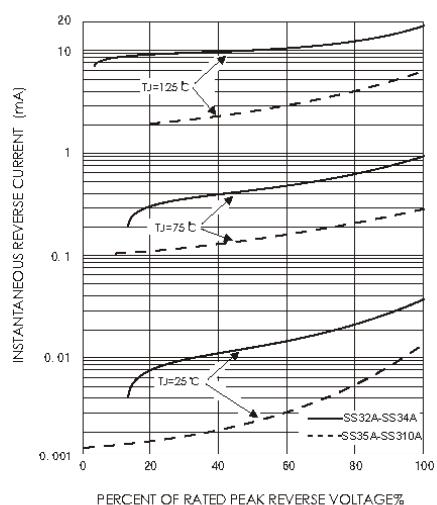
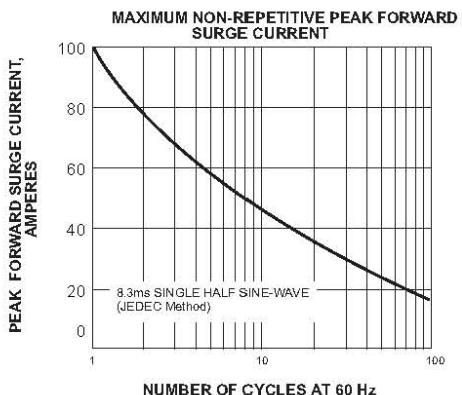
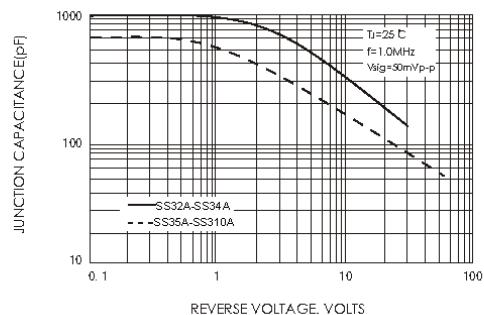
FORWARD CURRENT DERATING CURVE



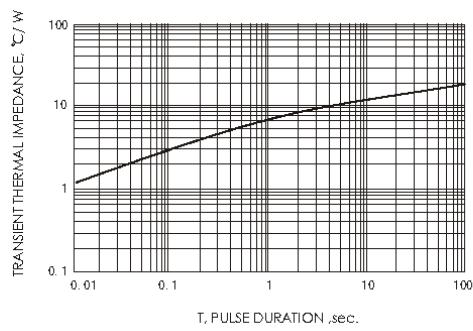
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



TYPICAL TRANSIENT THERMAL IMPEDANCE



TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC-080000 Certificate No. 121505007 Certificate No. 50114012 Certificate No. 0513150006 Certificate No. E201100011022

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