



SS32 THRU SS3200

Surface Mount Schottky Rectifiers

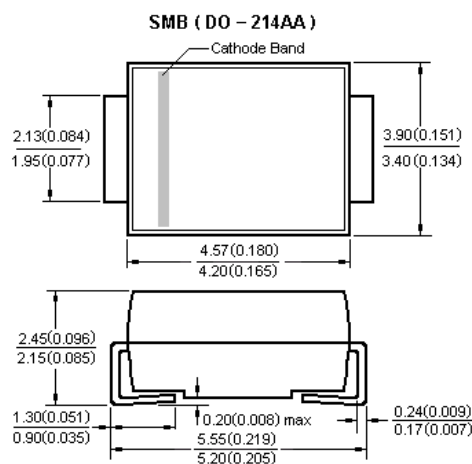
Features

- Low profile package
- Ideal for automated placement
- Fast switching for high efficiency
- High forward surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC



Mechanical Data

- **Case:** JEDEC DO-214AA molded plastic body
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end



Dimensions in millimeters and (inches)

Maximum Ratings and Electrical Characteristics Rating at 25 °C

ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SYMBOL	SS 32	SS 34	SS 345	SS 36	SS 38	SS 310	SS 3150	SS 3200	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	45	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	31	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	45	60	80	100	150	200	V
Average Rectified Output Current @T _L =100°C		3.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80								A
Forward Voltage @IF=3.0A (Note 1)	V _{FM}	0.55			0.7	0.85		0.92		V
Peak Reverse Current @T _A =25 °C	I _R	0.1				0.05				mA
At Rated DC Blocking Voltage @T _A =100 °C		10				5				
I ² t Rating for fusing (t <8.3ms)	I ² t	26.56								A ² s
Typical Junction Capacitance (Note 2)	C _J	12								pF
Typical Thermal Resistance per leg (Note3)	R _{θJA}	70								°C/W
Operating Temperature Range	T _J	-55 to+150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

Note: 1. Pulse Test with $PW = 300\mu\text{s}$, 1% Duty Cycle.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. Thermal Resistance from Junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.





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

Fig. 1 Forward Current Derating Curve

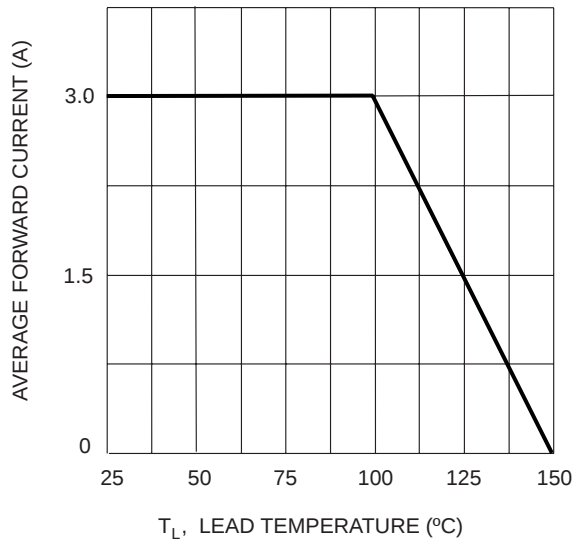


Fig. 2 Typ. Forward Characteristics

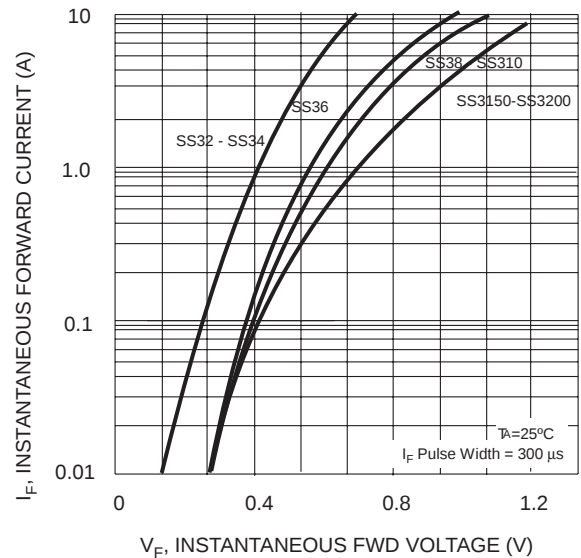


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

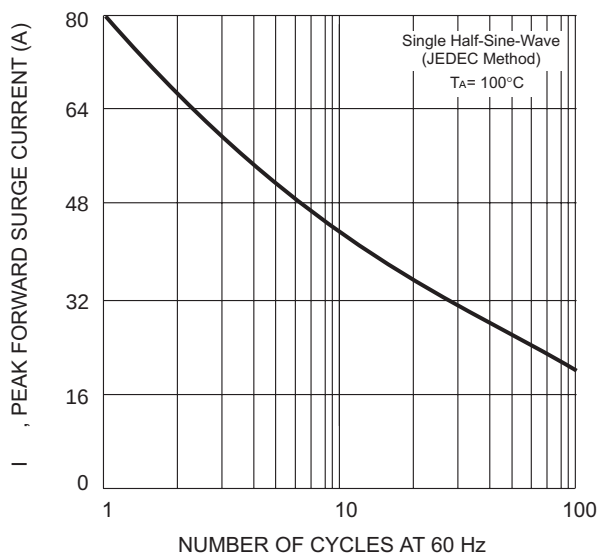


FIG.4 TYPICAL REVERSE CHARACTERISTIC

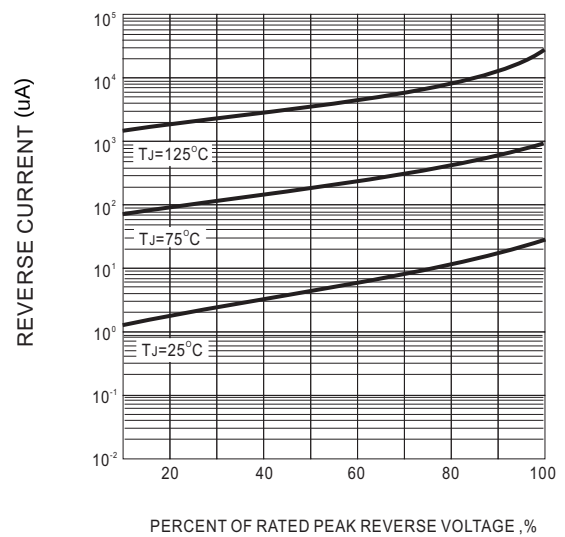


FIG.5 MOUNTING PAD LAYOUT

