

SS32 THRU SS325

3.0 AMP Surface Mount Schottky Barrier Rectifiers

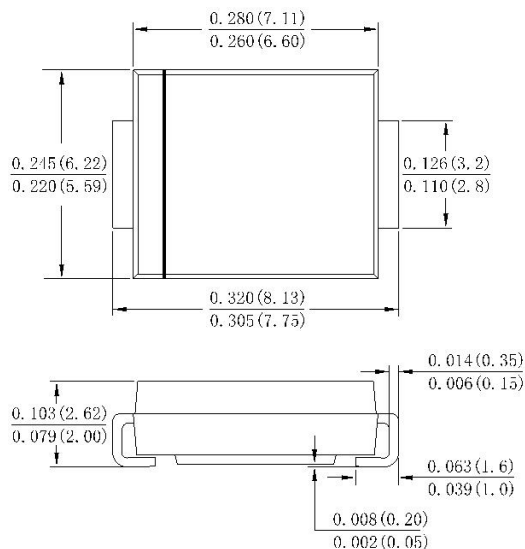
Features

- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded plastic SMC
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: as marked as case
- Mounting Position: Any
- Making: Type Number

Case: SMC(DO-214AB)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SS32	SS33	SS34	SS35	SS35	SS36	SS38	SS310	SS315	SS320	SS325	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	250	v
Maximum RMS Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T _L =100°C	IF(AV)	3.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80											A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	26.56											A
Forward Voltage @IF=3.0A	V _{FM}	0.55				0.7		0.85		0.92		0.95	V ^{2S}
Peak Reverse Current @T ≠25°C	I _R	0.1						0.01					mA
At Rated DC Blocking Voltage @T _J =125°C		10						0.25					
Typical Junction Capacitance (Note 1)	C _J	12											pF
Typical Thermal Resistance per leg	R _{θJL}	18											°C/W
Operating Temperature Range	T _J	-55 to +150											°C
Storage Temperature Range	T _{STG}	-55 to +150											°C

Note:

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

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Fig. 1 Forward Current Derating Curve

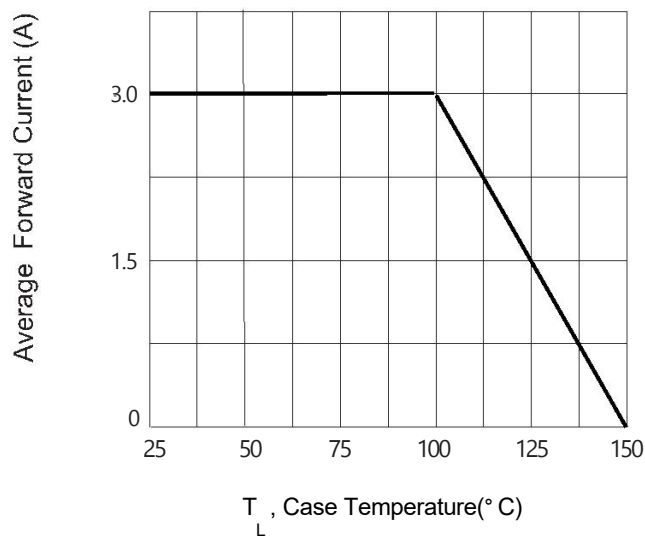


Fig. 2 Typ. Forward Characteristics

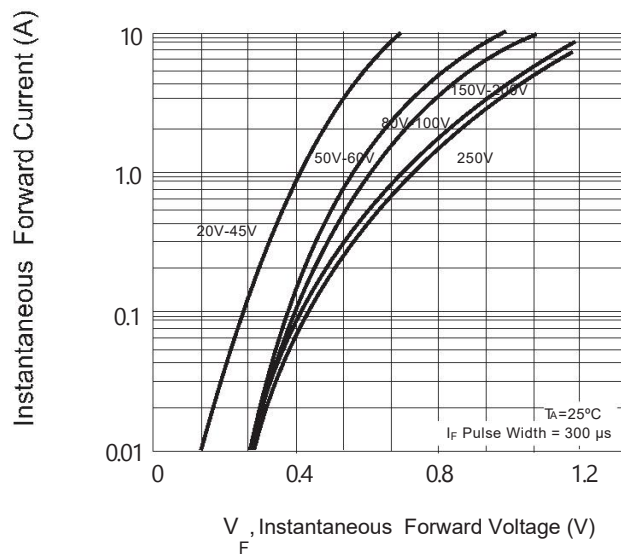


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

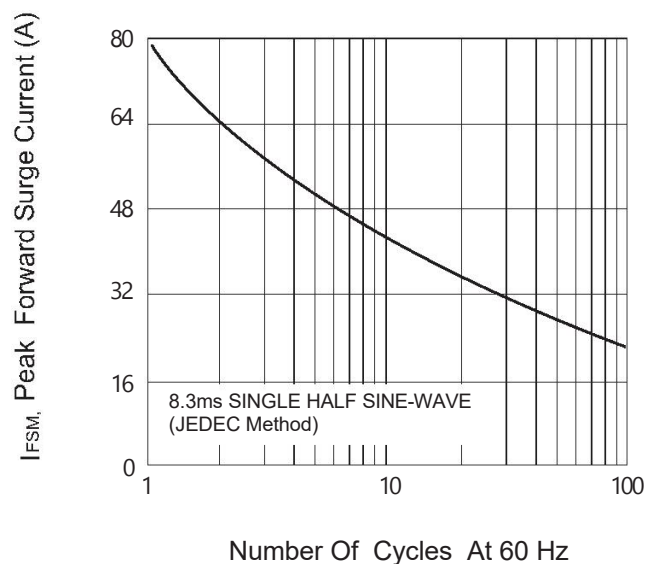


Fig.4 Typical Reverse Characteristics

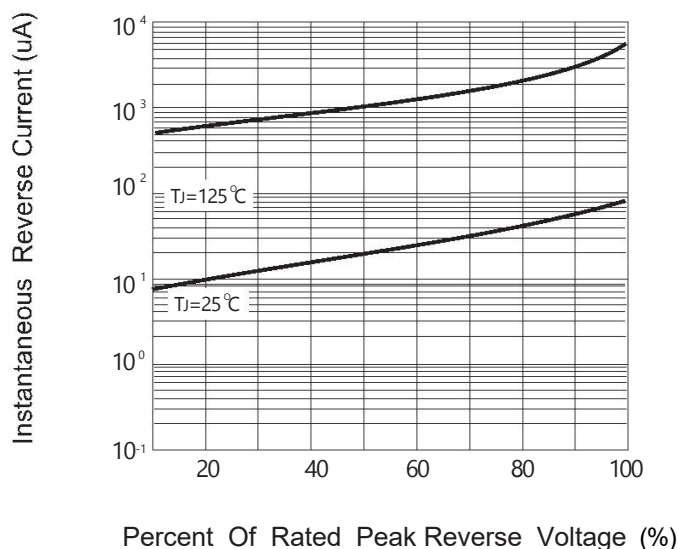


Fig.5 Mounting PAD Layout

