



# SS32U THRU SS325U

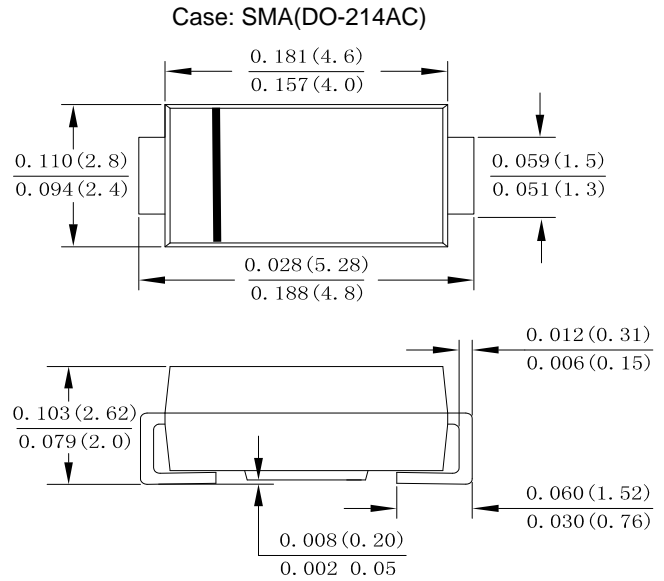
3.0 AMP Surface Mount Schottky Barrier Rectifier

## Features

- Schottky Barrier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 90A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

## Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



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	SS 32U	SS 33U	SS 34U	SS 345U	SS 35U	SS 36U	SS 38U	SS 310U	SS 315U	SS 320U	SS 325U	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 @ $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	3.0											A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	90											A	
Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	33.62											$\text{A}^2\text{s}$	
Forward Voltage @ $I_F = 3.0\text{A}$	$V_{FM}$	0.50			0.67		0.82		0.90		0.92		V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_R$	0.1					0.05							mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		10					5							
Typical Junction Capacitance (Note 1)	$C_J$	140					80							pF
Typical Thermal Resistance	$R_{\theta JA}$	110											$^\circ\text{C}/\text{W}$	
Operating Temperature Range	$T_J$	-55 to +150											$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150											$^\circ\text{C}$	

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

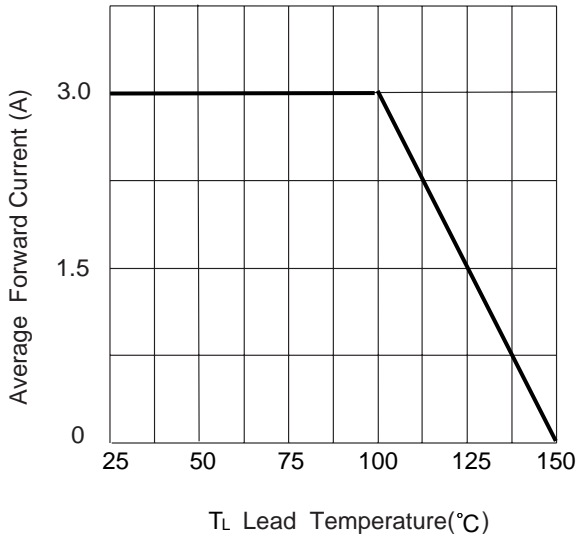


Fig. 2 Typ. Forward Characteristics

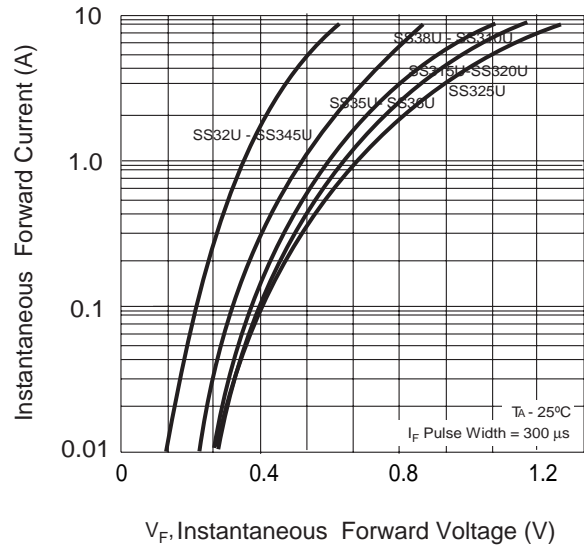


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

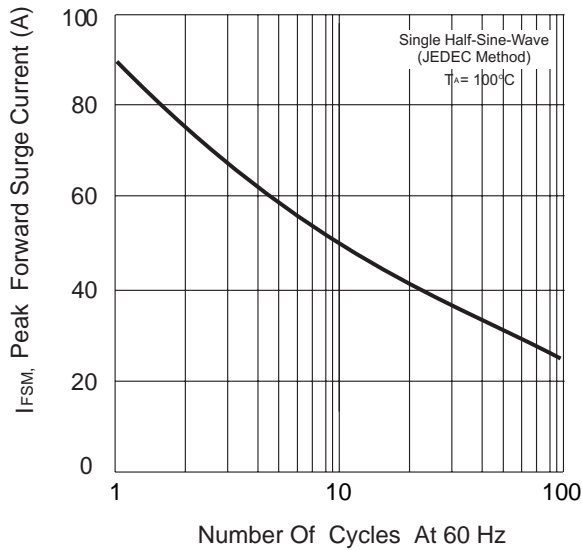


Fig. 4 Typical Reverse Characteristics(per element)

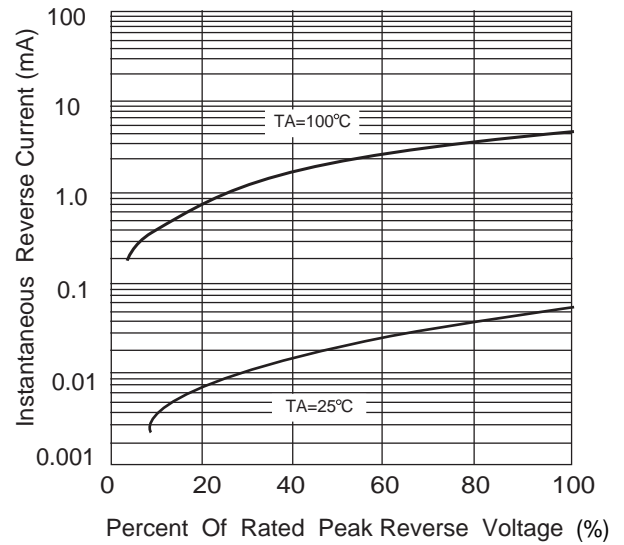
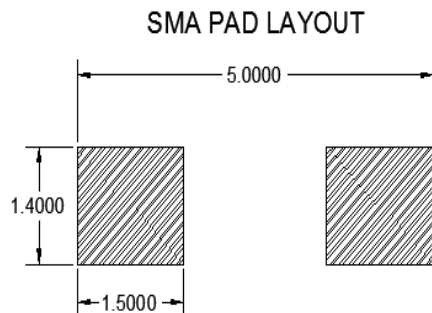


Fig.5 Mounting PAD Layout





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