



SS32 SS34 SS35 SS36 SS38 SS39 SS310 Schottky diode SMC



Specifications

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**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 33	SS 34	SS 35	SS 36	SS 39	SS 310	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at $T_L$ (See Fig. 1)	$I_{(AV)}$	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	100			70				A
Maximum Instantaneous Forward Voltage (Note 1) IF= 3.0A @ 25°C @ 100°C	$V_F$	0.5 0.4		0.75 0.65		0.85 0.70		V	
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	$I_R$	0.5				0.1			mA
		10			5		0.5		mA
Typical Thermal Resistance ( Note 2 )	$R_{\theta JL}$ $R_{\theta JA}$	17 55					°C/W		
Operating Temperature Range	$T_J$	-55 to +125			-55 to +150				°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle