

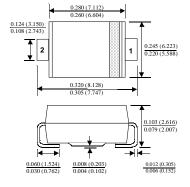
SS32 - S310

Features

- Metal to silicon rectifiers, majority carrier conduction.
- Low forward voltage drop.
- Easy pick and place.
- High surge current capability.



SMC/DO-214AB



3.0 Ampere Schottky Barrier Rectifiers

Absolute Maximum Ratings*

 $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Value	Units	
lo	Average Rectified Current @ T _A = 75°C	3.0	Α	
İf(surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	100	А	
P _D	Total Device Dissipation Derate above 25°C	2.27 18	W mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient**	55	°C/W	
$R_{\theta JC}$	Thermal Resistance, Junction to Case	17	°C/W	
T _{stg}	Storage Temperature Range	-55 to +150	°C	
TJ	Operating Junction Temperature	-55 to +150	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics

T_A = 25°C unless otherwise noted

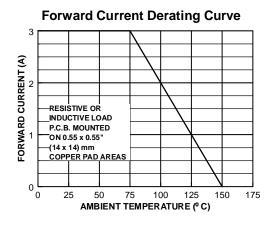
Parameter		Device						Units	
	32	33	34	35	36	38	39	310	•
Peak Repetitive Reverse Voltage		30	40	50	60	80	90	100	V
Maximum RMS Voltage		21	28	35	42	56	63	70	V
DC Reverse Voltage (Rated V _R)	20	30	40	50	60	80	90	100	V
Maximum Reverse Current T _A = 25°C	0.5						mA		
@ rated V_R $T_A = 100^{\circ}C$		20 10				mA			
Maximum Forward Voltage @ 3.0 A		500		7:	50		850		mV

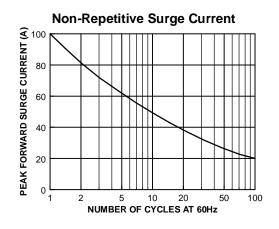
^{**} Device mounted on FR-4 PCB 0.55 x 0.55" (14 x 14 mm).

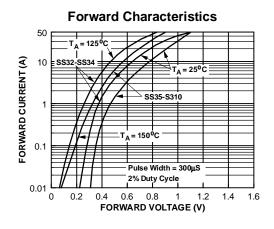
Surface Mount Schottky Barrier Rectifiers

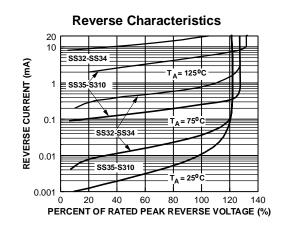
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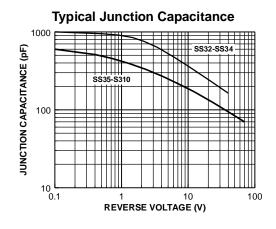
Typical Characteristics

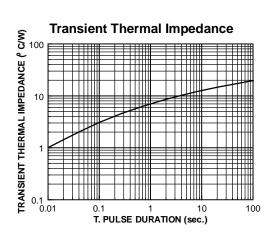








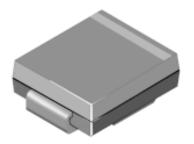


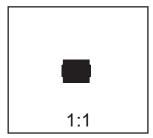


SMC/DO-214AB Package Dimensions



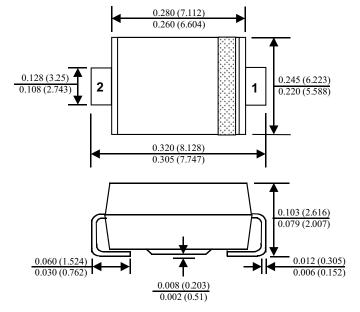
SMC/DO-214AB (FS PKG Code P7)

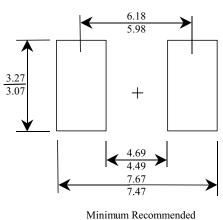




Scale 1:1 on letter size paper
Dimensions shown below are in:
inches [millimeters]

Part Weight per unit (gram): 0.21





Land Pattern

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FACT $^{\text{TM}}$ QFET $^{\text{TM}}$ FACT Quiet Series $^{\text{TM}}$ QS $^{\text{TM}}$

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PRODUCT STATUS DEFINITIONS

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