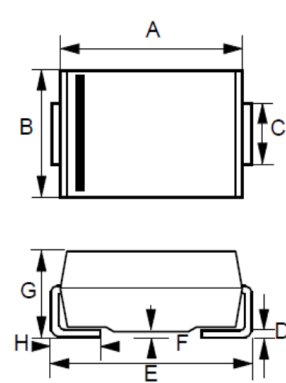


## SMD General Purpose Rectifier Diode

Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	20 ~ 100	V
Maximum Average Forward Rectified Current	3.0	A

### Features

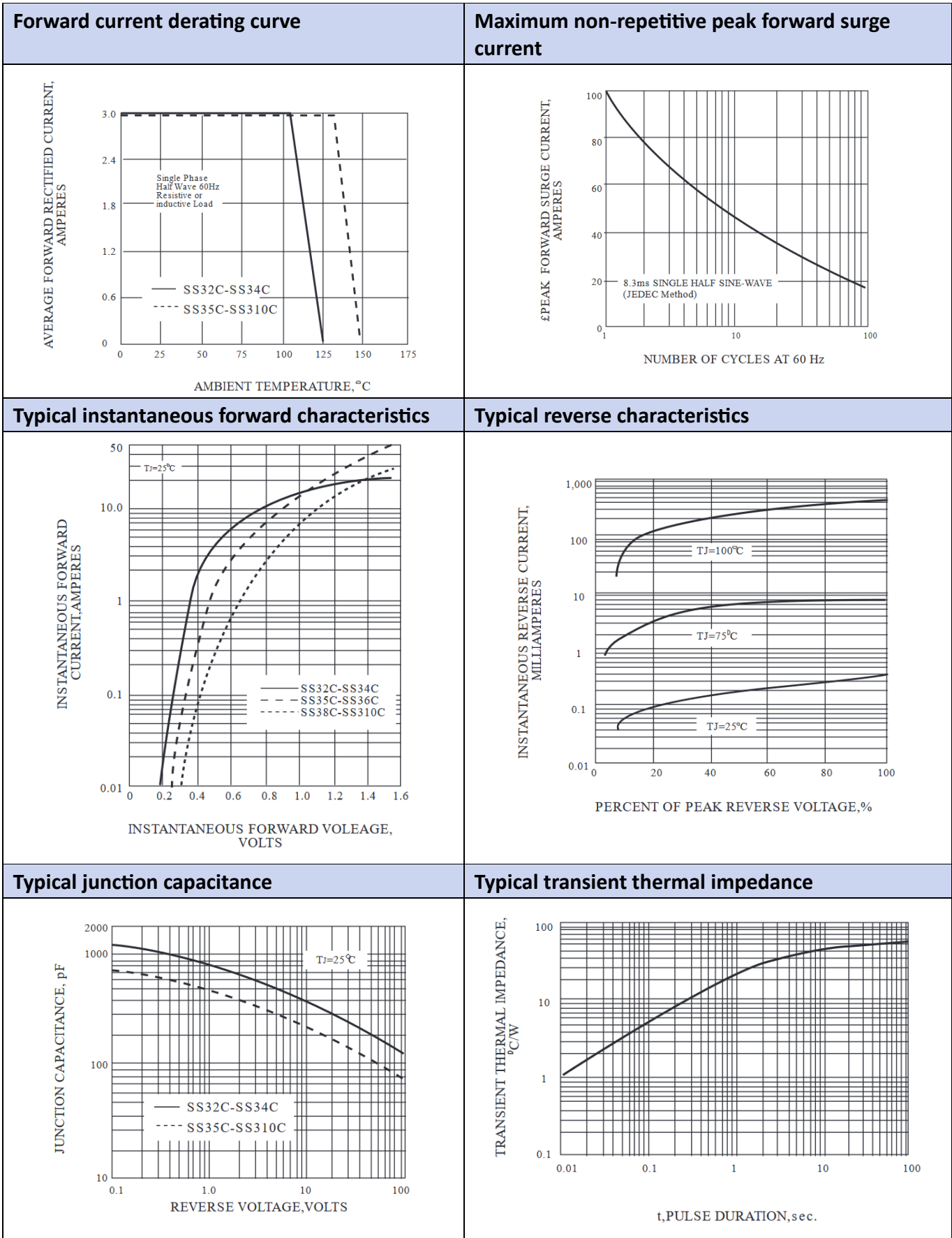
- **SMC (DO-214AB)** case for easy automatic insertion
- Pb-free and **RoHS** compliant
- Polarity: cathode band or cathode notch
- Marking: type number
- Terminals: solder plated, solderable per MIL-STD-750 Method 2026
- Approximated weight: 0.21 grams

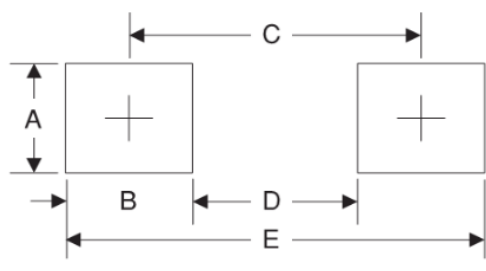
Case dimensions								
								
SMC (DO-214AB)								
Unit	A	B	C	D	E	F	G	H
mm	6.9 -0.30 +0.21	5.9 -0.31 +0.32	3.05 ±0.13	0.23 ±0.08	7.94 ±0.19	0.12 -0.07 +0.08	2.25 -0.24 +0.25	1.14 ±0.38

Absolute maximum ratings and general electrical characteristics (T <sub>a</sub> = 25°C)									
Parameter	Symbol	Value							Unit
		SS32C	SS33C	SS34C	SS35C	SS36C	SS38C	SS310C	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	
Maximum average forward rectified current at T <sub>L</sub>	I <sub>(AV)</sub>	3.0							A
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	100							
Maximum instantaneous forward voltage @3.0A	V <sub>F</sub>	500		700		850		mV	
Maximum DC reverse current at rated DC blocking voltage	T <sub>a</sub> =25°C	0.5							mA
	T <sub>a</sub> =100°C	20		10					
Typical junction capacitance <sup>1)</sup>	C <sub>J</sub>	500		300					pF
Typical thermal resistance <sup>2)</sup>	R <sub>θJA</sub>	55							°C/W
Operating junction temperature range	T <sub>J</sub>	-65 ~ 125			-65 ~ 150				°C
Operating storage temperature range	T <sub>STG</sub>	-65 ~ 150							°C

Notes:

- 1) Measured at 1.0MHz and applied reverse voltage of 4.0VDC
- 2) PCB mounted with 2.0"x2.0" (5x5cm) copper pad areas



Suggested soldering pad layout					
					
SMC (DO-214AB)					
Unit	A	B	C	D	E
mm	4.3	4.1	7.9	3.8	12

Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
SS32C ~ SS310C	DO-214AB	3 000 pcs / reel	---

## Disclaimer

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