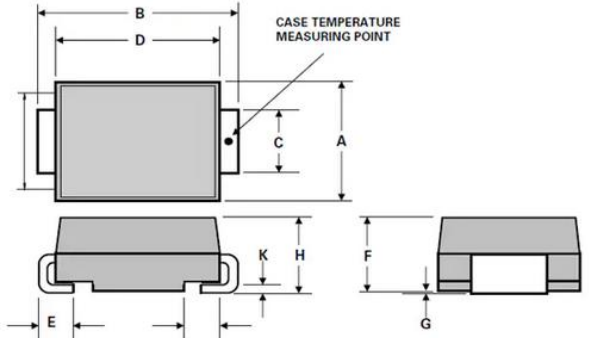


SMD Schottky Barrier Rectifier Diode

Primary characteristics		
Parameter	Value	Unit
Maximum repetitive peak reverse voltage	150 ~ 200	V
Maximum average forward rectified current	3.0	A

Features

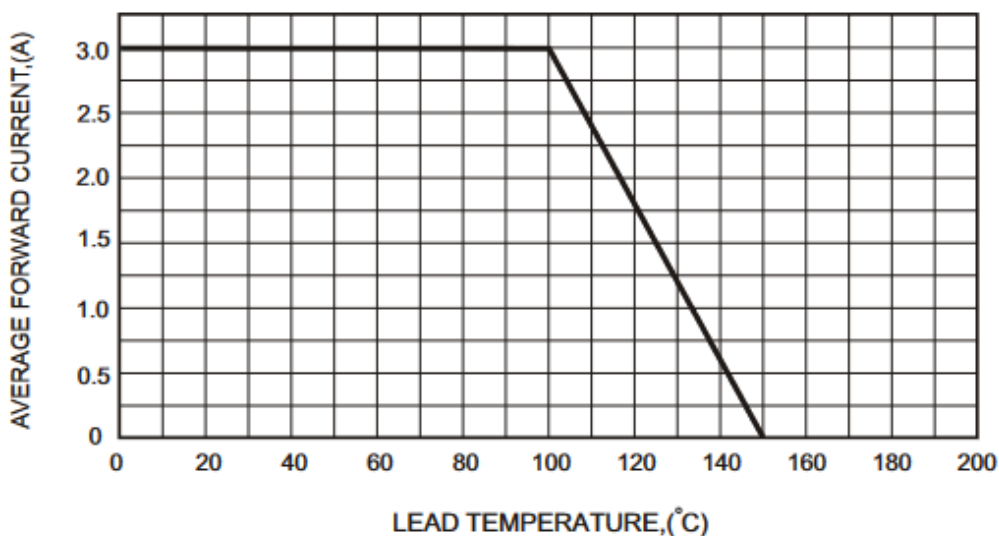
- **SMB (DO-214AA)** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Built-in strain relief
- Low forward voltage drop
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Weight: ~0.093 grams

Case dimensions									
									
SMB (DO-214AA)									
Unit	A	B	C	D	E	F	G	H	K
mm	3.60 -0.30 +0.35	5.3 -0.2 +0.3	2.10 -0.15 +0.10	4.30 -0.25 +0.30	1.20 -0.45 +0.40	2.20 -0.30 +0.25	0.10 -0.05 +0.10	2.30 ±0.35	0.30 -0.15 +0.11

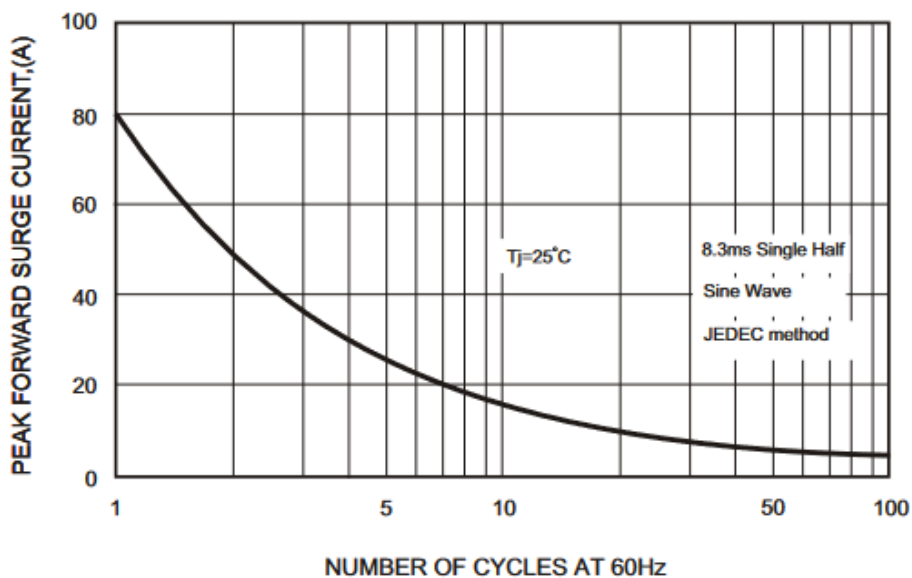
Absolute maximum ratings and general electrical characteristics (T_a = 25°C)

Parameter	Symbol	Value		Unit
		SS315	SS320	
Maximum repetitive peak reverse voltage	V _{RRM}	150	200	V
Maximum RMS voltage	V _{RMS}	105	140	
Maximum DC blocking voltage	V _{DC}	150	200	
Maximum average forward rectified current	I _{F(AV)}	3.0		A
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	80		
Maximum instantaneous forward voltage @3.0A	V _F	0.92		V
Maximum DC reverse current at rated DC blocking voltage	I _R	T _a =25°C	0.02	mA
		T _a =100°C	2.0	
Typical junction capacitance @1.0MHz, V _R =4.0VDC	C _J	250		pF
Typical thermal resistance	R _{θJA}	55		°C/W
Operating and storage temperature range	T _J , T _{STG}	-65 ~ 150		°C

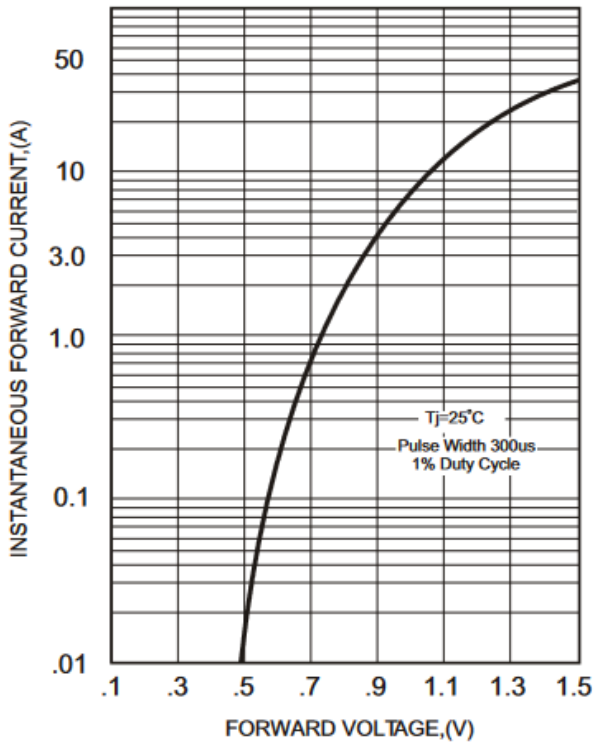
Forward current derating curve



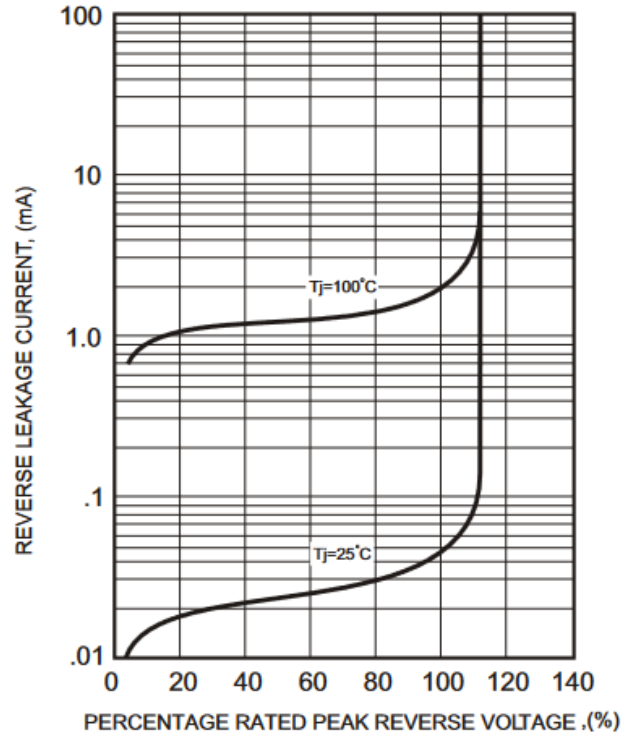
Maximum non-repetitive peak forward surge current



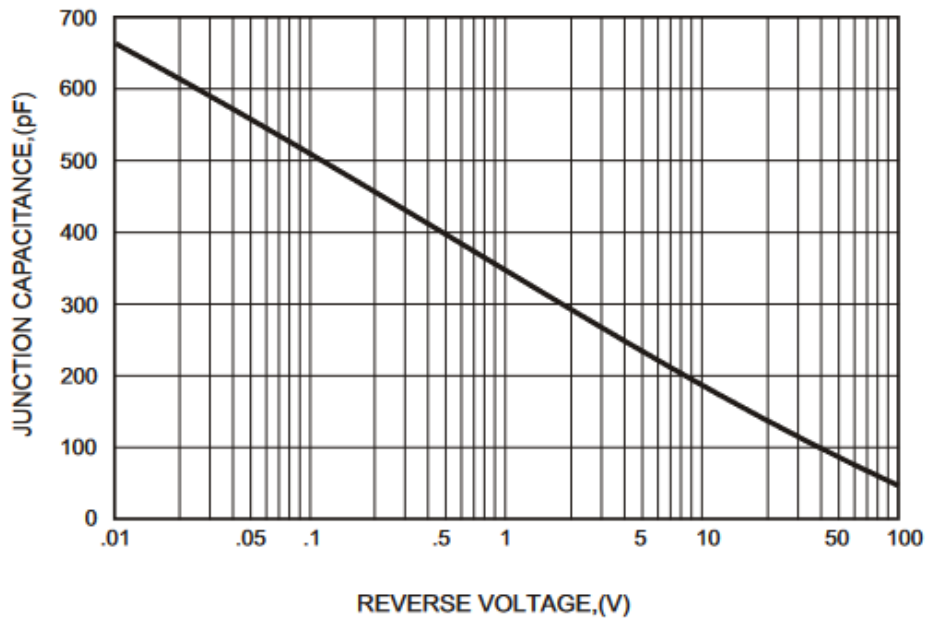
Typical forward characteristics

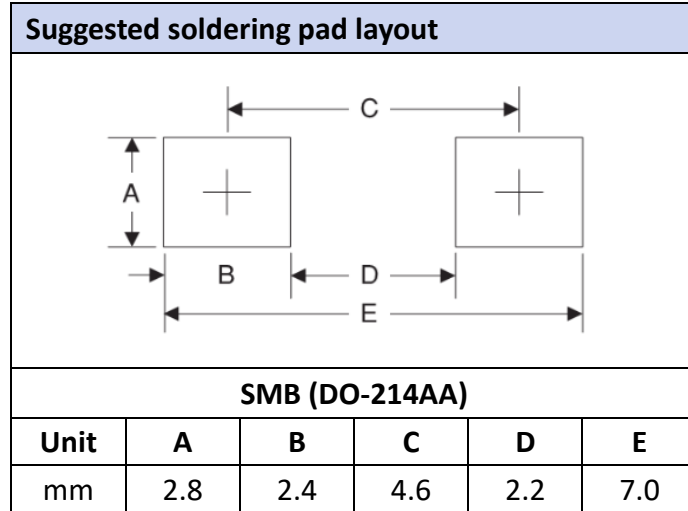


Typical reverse characteristics



Typical junction capacitance





Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
SS315B ~ SS320B	SMB (DO-214AA)	3 000 pcs / reel	---

Disclaimer

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