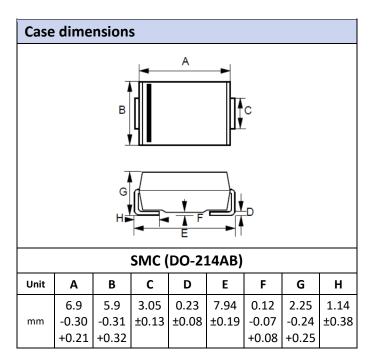


SMD General Purpose Rectifier Diode

Primary characteristics					
Parameter	Value	Unit			
Maximum Repetitive Peak Reverse Voltage	50 ~ 1000	V			
Maximum Average Forward Rectified Current	5.0	A			

Features

- SMC (DO-214AB) case for easy automatic insertion
- Pb-free and RoHS compliant
- Glass passivated chip junction
- Approximated weight: 0.22 grams
- Solderable per MIL-STD-750 Method 2026



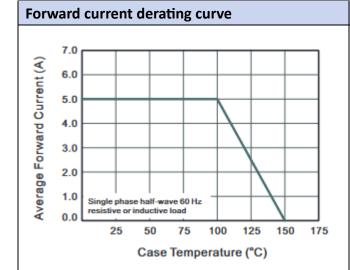
Absolute maximum ratings and general electrical characteristics (T _a = 25°C)										
Parameter		Symbol	Value							
			S5AC	S5BC	S5DC	S5GC	S5JC	S5KC	S5MC	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	
Maximum RMS voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	
Marking code			S5A	S5B	S5D	S5G	S5J	S5K	S5M	
Maximum average forward rectified current		I _(AV)	5.0							
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		l _{FSM}	120					А		
Maximum instantaneous forward voltage @5.0A		VF	1.0						V	
Maximum DC reverse current at rated DC	T _a =25°C	I _R				5.0				μА
blocking voltage	Ta=125°C	-14	100							P
Typical junction capacitance 1)		CJ	50					pF		
Typical thermal resistance ²⁾		R _{eJA}	35					°C/W		
		R _{eJC}	13							
Operating junction and storage temperature range		T _j , T _{STG}	-55 ~ 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

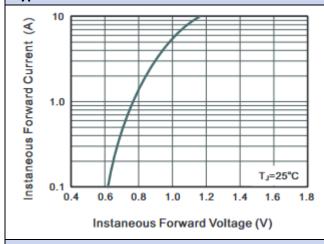
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S5AC - S5MC Series



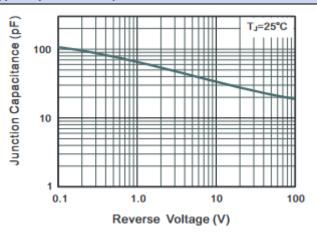
1.0 T_J=125°C 100 20 40 60 80 100 120 140 percent of Rated Peak Reverse Voltage (%)

Typical forward characteristic

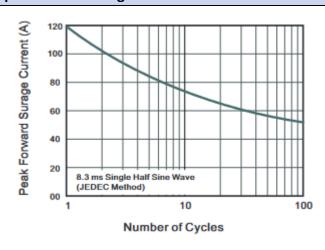


Typical junction capacitance

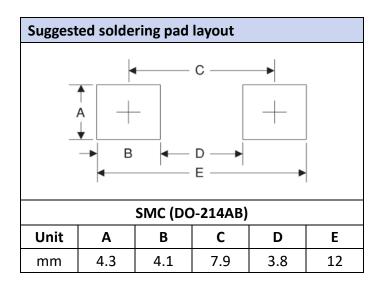
Typical reverse characteristics



Maximum non-repetitive peak forward surge current







Ordering information							
Part Number	Package	Shipping Quantity	Dimensions				
S5AC ~ S5MC	DO-214AB	3 000 pcs / reel					

Disclaimer

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