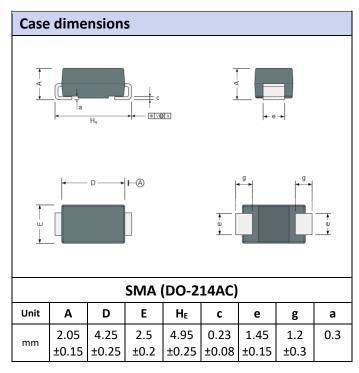


SMD Ultra Fast Recovery Rectifier Diode

Primary characteristics					
Parameter	Value	Unit			
Maximum Repetitive Peak Reverse Voltage	50 ~ 1000	V			
Maximum Average Forward Rectified Current	1.0	А			

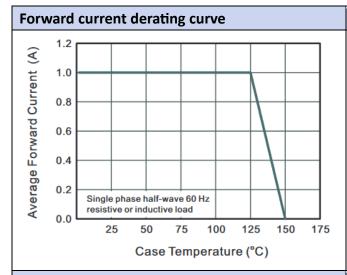
Features

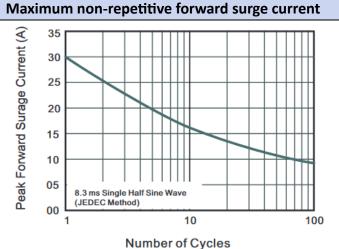
- SMA (DO-214AC) case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Glass passivated chip junction
- Fast reverse recovery time
- Solderable per MIL-STD-750, Method 2026
- Approx. weight: 0.07g / 0.002oz



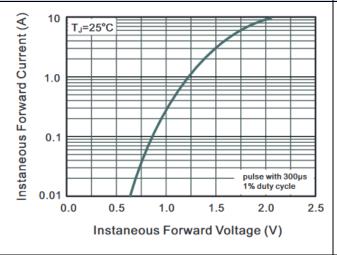
Absolute maximum ratings and general electrical characteristics (T _a = 25°C)										
Parameter		Symbol	Value						l los!A	
			RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	
Maximum average forward rect current 0.375"(9.5mm) lead length	ified	I _{F(AV)}				1.0				Α
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	30					A		
Maximum instantaneous forward voltage @1.0A		V _F	1.3						V	
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C	I _R	5.0						μΑ	
	T _a =125°C	-11				50				μ
Typical junction capacitance V_R =4V, f=1MHz		C _j				15				pF
Maximum reverse recovery time I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	<u> </u>	T _{rr}		1	50		250	50	00	ns
Typical Thermal Resistance (PCB with 5x5cm copper pad areas)		R _{eJA}	75					°C/W		
Operating junction and storage temperature range		Tj, Tstg	-55 ~ 150				°C			



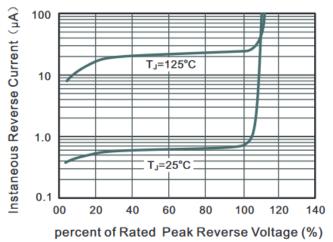




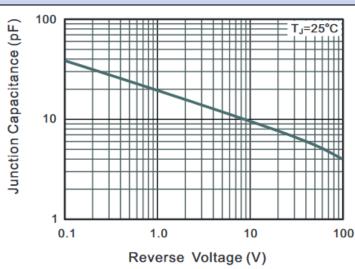
Typical instaneous forward characteristics



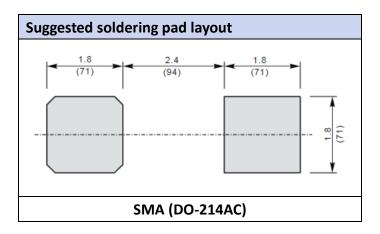
Typical reverse characteristics



Typical junction capacitance







Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
RS1A ~ RS1M	SMA (DO-214AC)	5000 pcs / 11" reel 2000 pcs / 7" reel	

Disclaimer

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