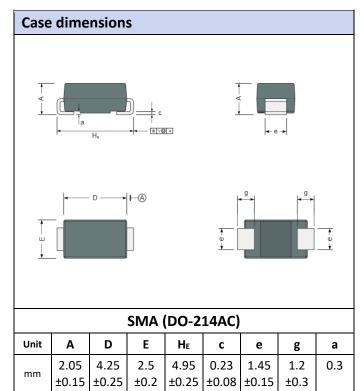


SMD Ultra Fast Recovery Rectifier Diode

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

Features

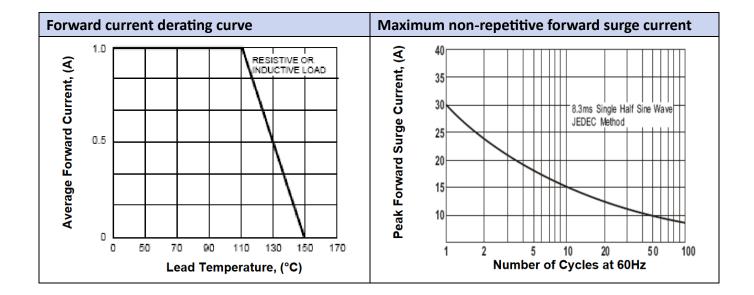
- SMA (DO-214AC) case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Glass passivated junction chip
- Fast switching for high efficiency
- For surface mounted application
- High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Plastic material used carries UL Classification 94V-0



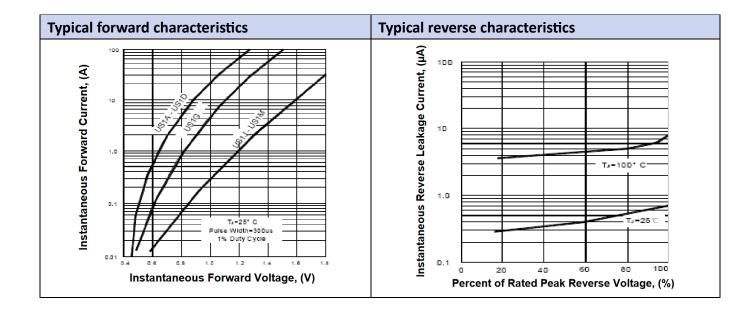
Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)											
Parameter		Symbol	Value						Unit		
			US1A	US1B	US1D	US1G	US1J	US1K	US1M	Unit	
Maximum repetitive peak rever	se voltage	V _{RRM}	50	100	200	400	600	800	1000		
Maximum RMS voltage		V _{RMS}	35	70	140	280	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	l _{F(AV)}				1.0				А	
Peak forward surge current 8.3mS single half sine wave sup on rated load (JEDEC method)	erimposed	Ifsm				30				A	
Maximum instantaneous forwar @1.0A	rd voltage	VF		1.0		1.25		1.7		V	
Maximum DC reverse current T _a =25°C			5.0								
at rated DC blocking voltage	T _a =125°C	I _R	100						μA		
Maximum reverse recovery time I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	e	Trr		5	0			75		ns	

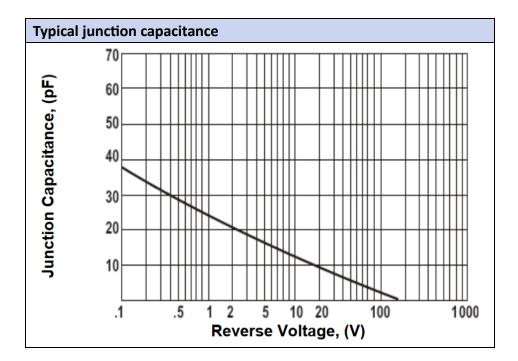


Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)					
Parameter	Symbol	Value	Unit		
Typical junction capacitance V _R =4V, f=1MHz	Cj	17	pF		
Operating junction and storage temperature range	Тј, Т _{STG}	-55 ~ 150	°C		

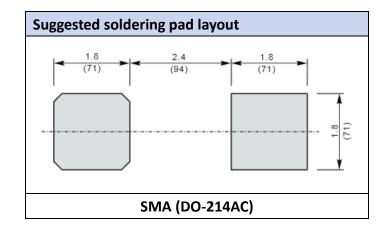












Ordering information						
Part Number	Package	Shipping Quantity	Dimensions			
US1A ~ US1M	SMA (DO-214AC)	3000 pcs / reel				

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