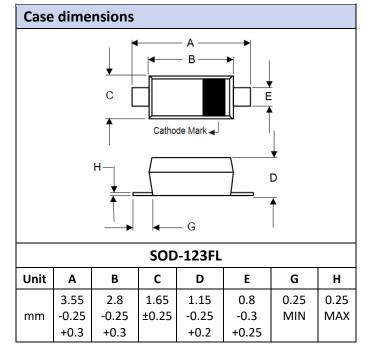


SMD Ultrafast Recovery Rectifier

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

Features

- SOD-123FL case for easy automatic insertion. •
- Pb-free and RoHS compliant •
- Polarity: color band denotes cathode end
- High efficiency •
- Glass passivated chip junction
- Terminals solderable per MIL-STD-750, Method 2026 •
- Approx. Weight: 15mg/0.00053oz •

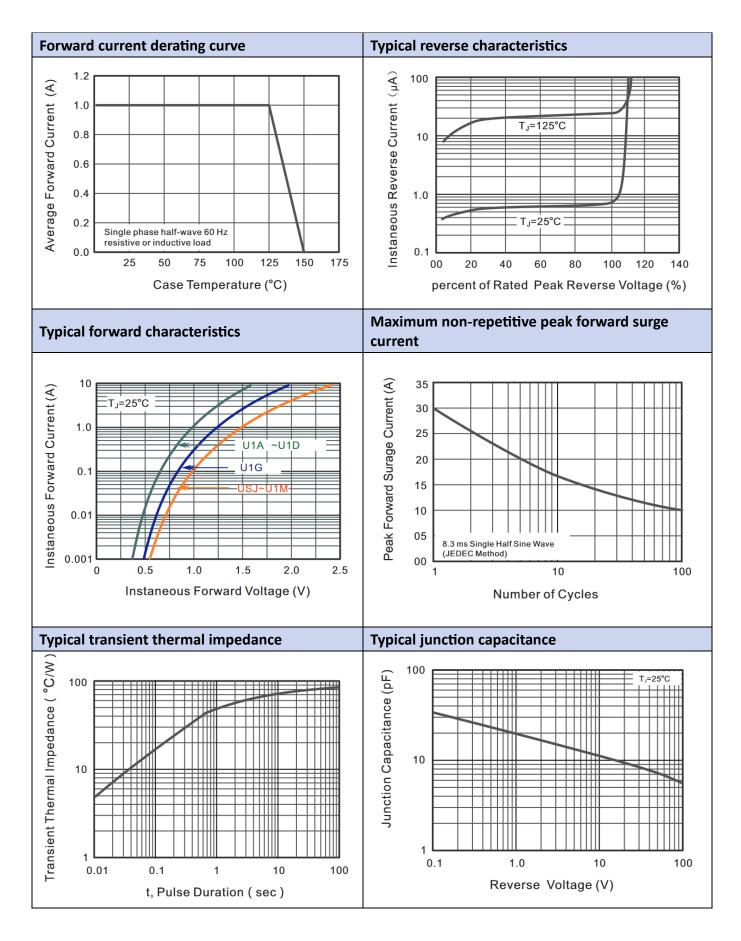


Absolute maximum ratings and general electrical characteristics (T _a = 25°C)										
Parameter		Symbol	Value						Unit	
			US1AW	US1BW	US1DW	US1GW	US1JW	US1KW	US1MW	Onit
Maximum repetitive peak reverse voltage		VRRM	50	100	200	400	600	800	1000	
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum average forward rect @T _c =125°C	ified current	I _{F(AV)}	1.0							
Peak forward surge current 8.3ms single half sine wave superimposed on rated load		I _{FSM}	30					A		
Maximum instantaneous forward voltage @1.0A		VF	1.0 1.3 1.65				V			
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C		5.0					μΑ		
	T _a =125°C	I _R	100							
Maximum reverse recovery time 1)		t _{rr}	50 75				ns			
Typical junction capacitance ²⁾		Cj	15				рF			
Typical thermal resistance 3)		R _{eJA}	85					°C/W		
Operating and storage temperature range		Tj, Tstg	-55 ~ 150					°C		
Notes: 1) Measured with I _F =0.5A, I _R =1	.0A, I _{rr} =0.25A									

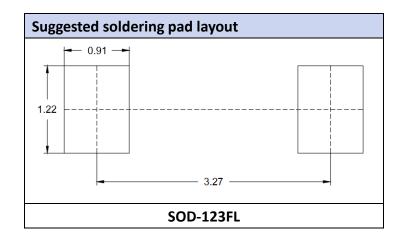
Measured at 1.0MHz and applied reverse voltage of 4.0VDC 2)

3) PCB mounted with 2.0"x2.0" (5.0x5.0cm) copper pad areas









Ordering information						
Part Number	Package	Shipping Quantity	Dimensions			
US1AW ~ US1MW	SOD-123FL	3000 pcs / reel				

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