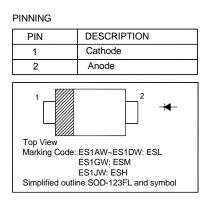
ES1AW THRU ES1JW

Surface Mount Superfast Recovery Rectifier Reverse Voltage – 50 to 600 V Forward Current – 1 A

i orward Current –

Features

- Easy pick and place
- For surface mounted applications
- Low profile package
- Superfast recovery times for high efficiency



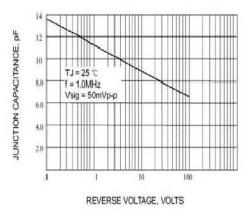
Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	ES1AW	ES1BW	ES1DW	ES1GW	ES1JW	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current T_L = 100°C	I _{F(AV)}	1					А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30					А
Maximum Forward Voltage at 1 A	VF	0.95 1.3 1.7			1.7	V	
Maximum Reverse Currentat $T_A = 25^{\circ}C$ at Rated DC Blocking Voltageat $T_A = 100^{\circ}C$	I _R	5 100					μA
Typical Junction Capacitance at $V_R = 4 V$, f = 1 MHz	CJ	10					pF
Maximum Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$	t _{rr}	35					ns
Operating Junction and Storage Temperature Range	T _j ,T _{stg}	- 55 to + 150					°C



TOP DYNAMIC





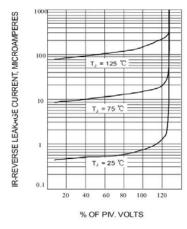
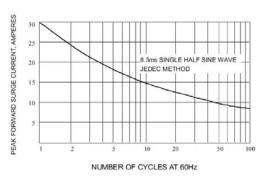


Fig. 3-TYPICAL REVERSE CHARACTERISTICS





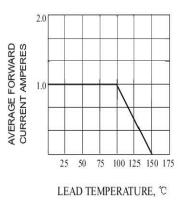


Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING

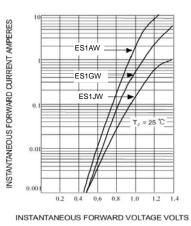


Fig. 4-TYPICAL FORWARD CHARACTERISTICS

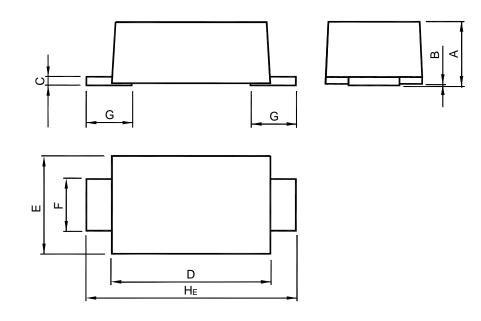


TOP DYNAMIC

PACKAGE OUTLINE

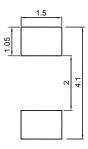
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	А	В	С	D	E	F	G	H _E
mm	1.08	0.1	0.2	2.9	1.9	1.1	0.9	3.9
	0.88	0	0.1	2.6	1.7	0.8	0.7	3.5

Recommended Soldering Footprint



Packing information

Dashawa	Tape Width P		tch	Ree	el Size		
Package	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000	



TOP DYNAMIC