ES1AW THRU ES1MW

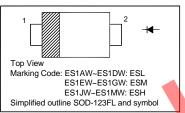
Surface Mount Superfast Recovery Rectifier Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

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

PINNING

PIN	DESCRIPTION					
1	Cathode					
2	Anode					



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	ES1CW	ES1DW	ES1EW	ES1GW	ES1JW	ES1KW	ES1MW	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	800	1000	>
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	560	700	>
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	800	1000	>
Maximum Average Forward Rectified Current T _L = 100°C	I _{F(AV)}	1						Α			
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30						Α			
Maximum Forward Voltage at 1 A	V_{F}		0.	95		1	.3		1.7		V
Maximum Reverse Currentat $T_A = 25^{\circ}$ Cat Rated DC Blocking Voltageat $T_A = 100^{\circ}$ C							μΑ				
Typical Junction Capacitance at $V_R = 4 \text{ V, } f = 1 \text{ MHz}$	Сл	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						ç			











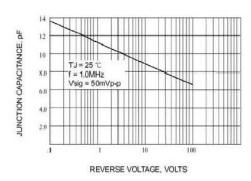
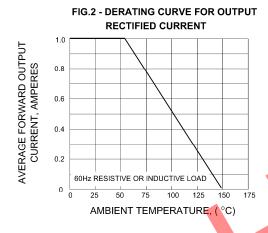


Fig .1- TYPICAL JUNCTION CAPACITANCE



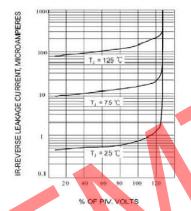


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

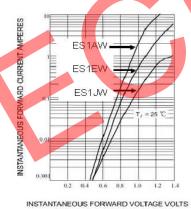
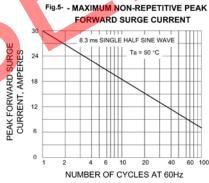


Fig. 4-TYPICAL FORWARD CHARACTERISTICS











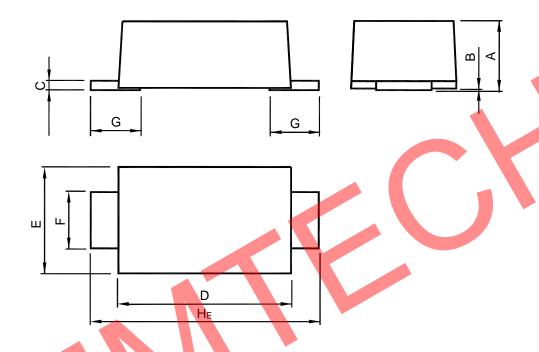


Subsidiary of Sino-Tech International (BVI) Limited

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	В	С	D	Е	F	G	H_E
	1.08	0.1	0.2	2.9	1.9	1.1	0.9	3.9
mm	0.88	0	0.1	2.6	1.7	0.8	0.7	3.5

