ES1AW THRU ES1MW

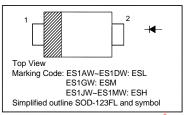
Surface Mount Superfast Recovery Rectifier Reverse Voltage - 50 to 1000 V Forward Current - 1 A

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		





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	ES1KW	ES1MW	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
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	V
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					А		
Maximum Forward Voltage at 1 A	V_{F}		0.95		1.3		1.7		V
	I _R				5 100				μA
Typical Junction Capacitance at V _R = 4 V, f = 1 MHz	С	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		













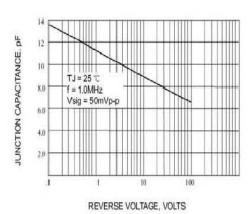


Fig.1- TYPICAL JUNCTION CAPACITANCE

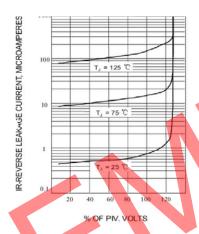


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

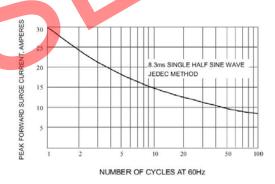


Fig. 5-MAXIMUM NON-REPETITIVE SURGE CURRENT

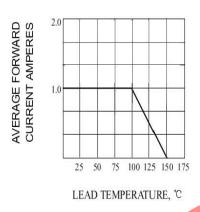
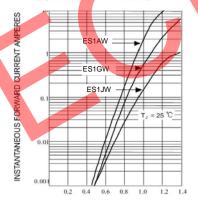


Fig. 2-MAXIMUM AVERAGE FORWARD **CURRENT RATING**



INSTANTANEOUS FORWARD VOLTAGE VOLTS

Fig. 4-TYPICAL FORWARD CHARACTERISTICS









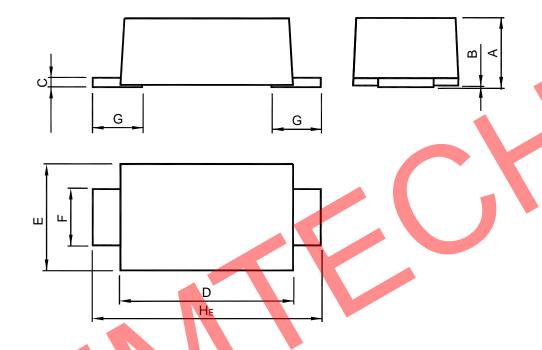




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	В	С	D	Е	F	G	H _E
7	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













