

ES2AW THRU ES2JW

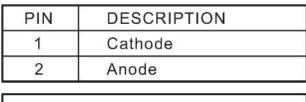
FEATURES

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

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg / 0.00053oz

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	ES2AW	ES2BW	ES2CW	ES2DW	ES2EW	ES2GW	ES2JW	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	600	V
Maximum RMS voltage	Vrms	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	v
Maximum Average Forward Rectified Current at TL= 100 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50							А
Maximum Forward Voltage at 2 A	VF	1 1.25 1.6					1.68	V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 100						μA	
Typical Junction Capacitance at V ₈ =4V, f=1MHz	Cj	25						рF	
Maximum Reverse Recovery Time at I_F =0.5A, I_R =1A, I_{yz} =0.25A	t,rr	35						ns	
Typical Thermal Resistance 1>	R _{gja}	90						°C/W	
Operating and Storage Temperature Range	⊤j, T _{s1g}	-55~+150						°C	

1) P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



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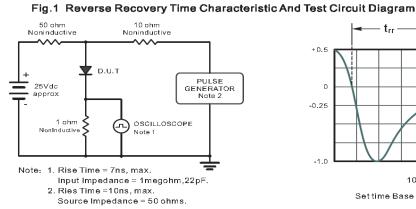


Fig.2 Maximum Average Forward Current Rating

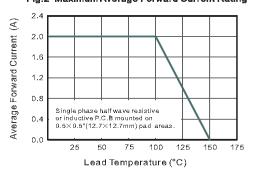


Fig.4 Typical Forward Characteristics

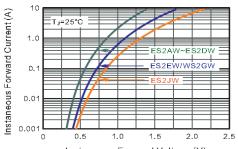
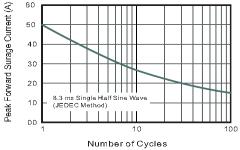
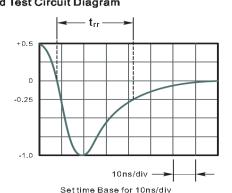




Fig.6 Maximum Non-Repetitive Peak Forward Surage Current 60





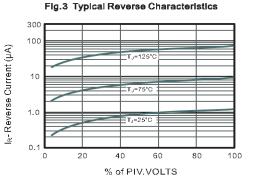
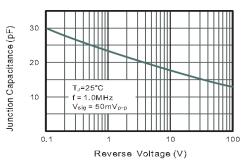


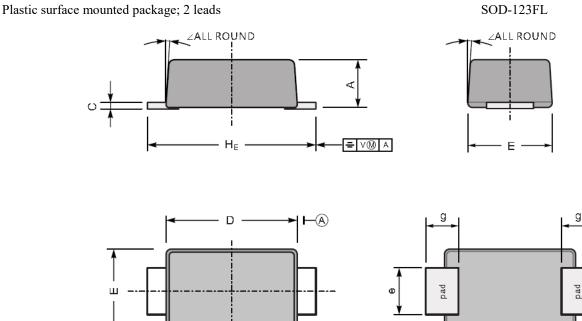
Fig.5 Typical Junction Capacitance

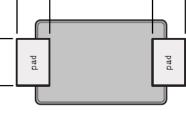




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PACKAGE OUTLINE





Top View

Bottom View

UNIT		А	С	D	E	е	g	H_{E}	Ż	
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8		
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	7°	
mil	max	43	7.9	114	75	43	35	150	ſ	
	min	35	4.7	102	67	31	28	138		

The recommended mounting pad size

