

ES2AW THRU ES2JW

$Surface\ Mount\ Superfast\ Recovery\ Rectifier \qquad {\tt Reverse\ Voltage-50\ to\ 600V} \quad {\tt Forward\ Current-2A}$

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

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	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	V _{RMS}	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 T₁ = 100 °C	I _{F(AV)}	2							Α
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	V _F	1 1.25 1.68					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	C _i	25							рF
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{yz} =0.25A	t,,,	35						ทธ	
Typical Thermal Resistance 1>	R _{eJA}	90						°C/W	
Operating and Storage Temperature Range	Tj, Ts1g	-55 ~ +150							°C

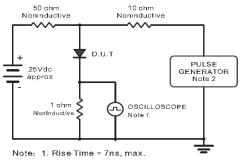
¹⁾ P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

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Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



- Input Impedance = 1megohm,22pF.
- 2. Ries Time = 10ns, max. Source Impedance = 50 ohms.

Fig.2 Maximum Average Forward Current Rating

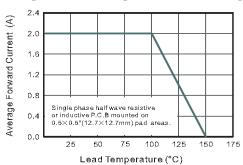


Fig.4 Typical Forward Characteristics

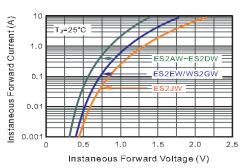
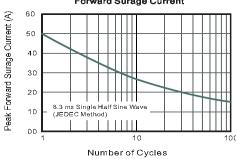


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



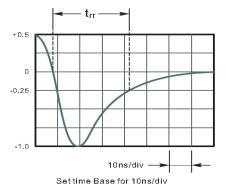


Fig.3 Typical Reverse Characteristics

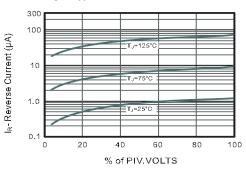
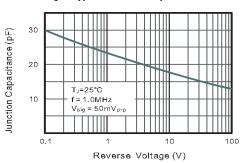


Fig.5 Typical Junction Capacitance

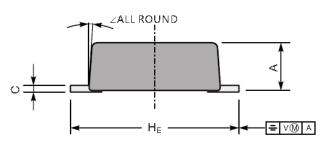




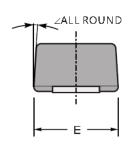
ES2AW THRU ES2JW

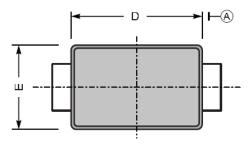
PACKAGE OUTLINE

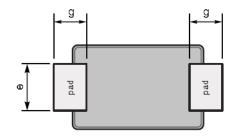
Plastic surface mounted package; 2 leads









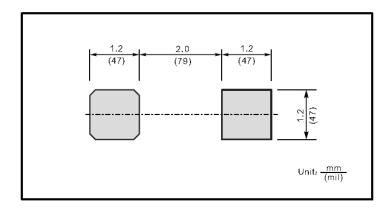


Top View

Bottom View

UNIT		Α	С	D	Е	е	g	HE	_
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	1
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size



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