

ES2AF THRU ES2JF

Surface Mount Superfast Recovery Rectifier

Reverse Voltage – 50 to 600 V Forward Current –2 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Superfast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

• Case: SMAF

• Terminals: Solderable per MIL-STD-750, Method 2026

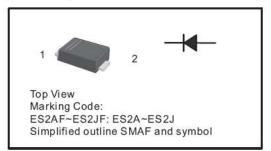
• pprox. Weight: 27mg 0.00086oz

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%.

PINNIN	1G
120-1965HH	

PIN	DESCRIPTION
1	Cathode
2	Anode



Parameter	Symbols	ES2AF	E\$2BF	ES2CF	ES2DF	ES2EF	ES2GF	E\$2JF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	٧
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	٧
Maximum Average Forward Rectified Current at T _L = 100 °C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50						Α	
Maximum Forward Voltage at 2A	V _F	1 1.25 1.7					1.7	V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R	5 100					μА		
Typical Junction Capacitance at V _R =4V, f=1 MHz	Cj	60					pF		
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}	35					ns		
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150						°C	

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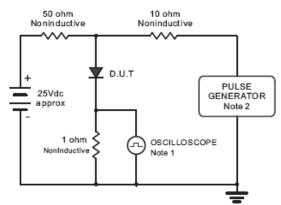
Conscious Products Begin With Conscious People



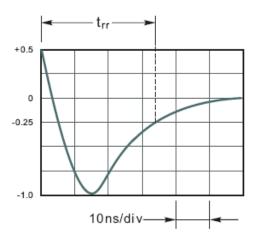


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Fig. 1 Reverse Recovery Time Characteristic And Test Circuit Diagram



- Note: 1. Rise Time = 7ns, max.
 - Input Impedance = 1megohm,22pF.
 - 2. Ries Time =10ns, max. Source Impedance = 50 ohms.



Set time Base for 10ns/div



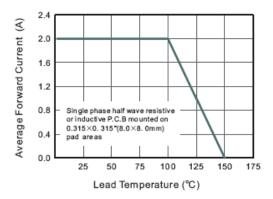


Fig.3 Typical Reverse Characteristics

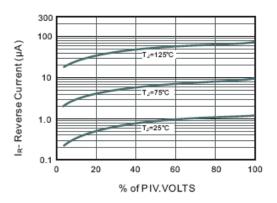


Fig. 4 Typical Forward Characteristics

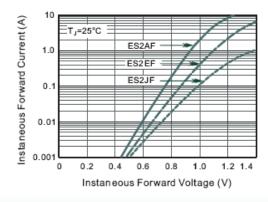
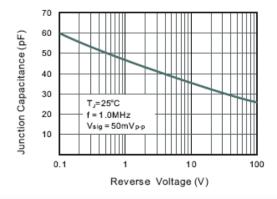


Fig.5 Typical Junction Capacitance



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REV.07

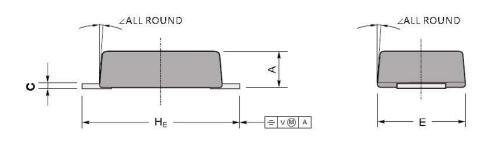


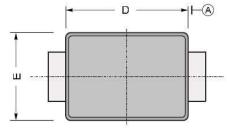
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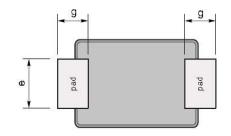
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF





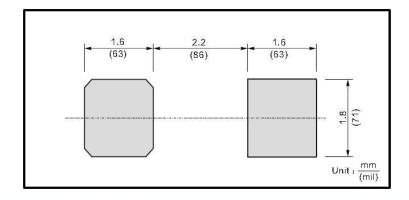


Top View

Bottom View

UNIT		Α	С	D	Е	е	g	HE	2
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	8.0	4.4	
mil	max	43	7.9	146	106	63	47	193	<u>(</u>
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



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