

ES2AF THRU ES2JF

Surface Mount Superfast Recovery Rectifier

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

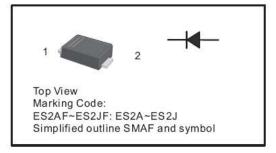
FEATURES

- 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

PINNING

PIN	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	ES2AF	ES2BF	ES2CF	E\$2DF	E\$2EF	E\$2GF	E\$2JF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	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 T∟= 100 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							А
Maximum Forward Voltage at 2A	VF	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						μA	
Typical Junction Capacitance at V _R =4V, f=1MHz	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, T _{stg}	-55 ~ +150							°C

SHIKE MAKE CONSCIOUS PRODUCT

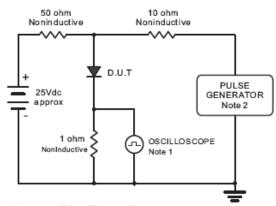
CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE





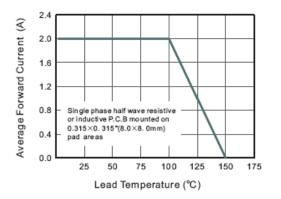
ES2AF THRU ES2JF

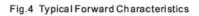
Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram

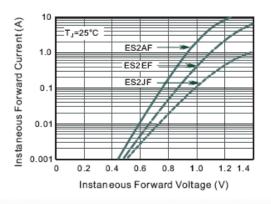


- Note: 1. Rise Time = 7ns, max. Input Impedance = 1megohm,22pF. 2. Ries Time =10ns, max.
 - Source Impedance = 50 ohms.

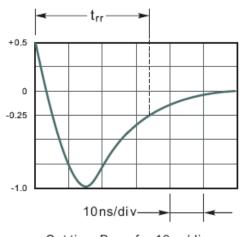
Fig.2 Maximum Average Forward Current Rating







SHIKE MAKE CONSCIOUS PRODUCT CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE



Set time Base for 10ns/div

Fig.3 Typical Reverse Characteristics

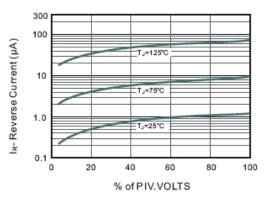
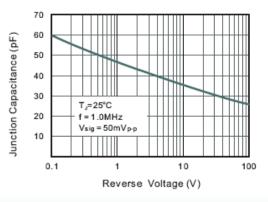


Fig.5 Typical Junction Capacitance





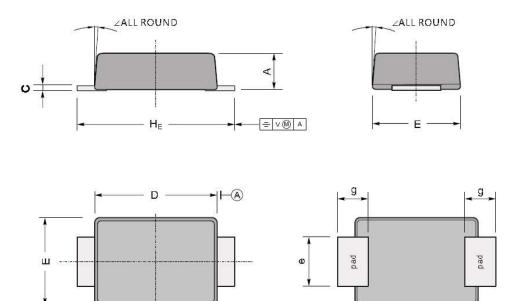


ES2AF THRU ES2JF

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF

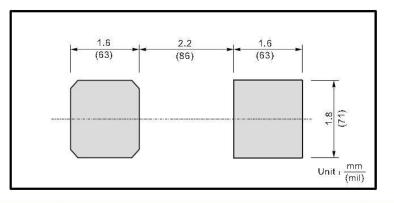


Top View

Bottom View

UNIT		А	С	D	E	e	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	0.8	4.4	
mil	max	43	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



SHIKE MAKE CONSCIOUS PRODUCT CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE

