

DESCRIPTION

The ES1AF~ES1JF is available in SMAF Package

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Superfast reverse recovery time
- Available in SMAF Package

ORDERING INFORMATION

Package Type	Part Number				
SMAF	ES1AF				
	ES1BF				
	ES1CF				
	ES1DF ES1EF				
					ES1GF
	ES1JF				
	Note	SPQ: 3,000pcs/Reel			
AiT provides all RoHS Compliant Products					

MECHANICAL DATA

Case: SMAF

Terminals: Solderable per MIL-STD-750, Method 2026 Approx. Weight: 27mg 0.00086oz

PIN DESCRIPTION





ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

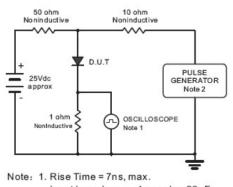
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Parameter		Symbol	ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Volta	Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blockir	Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T∟=100°C		IF(AV)	1.0							А
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		Ifsm	25							A
Maximum Forward Voltage at 1A		VF	1.0 1.25 1.7					1.7	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C T _A =125°C	IR	5.0 100						uA	
Typical Junction Capacitance at V _R =4V, f=1MHz		CJ	10						pF	
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{rr} =0.25A		trr	35						ns	
Operating and Storage Temperature Range		Тյ, Tsтg	-55 ~150						°C	



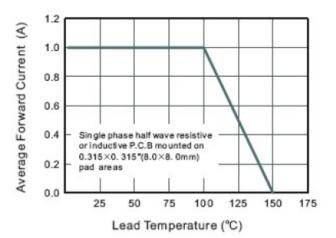
TYPICAL CHARACTERISTICS

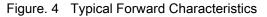
Figure. 1

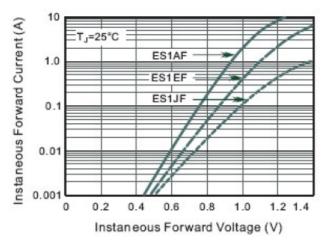


Input Impedance = 1megohm,22pF. 2. Ries Time =10ns, max. Source Impedance = 50 ohms.









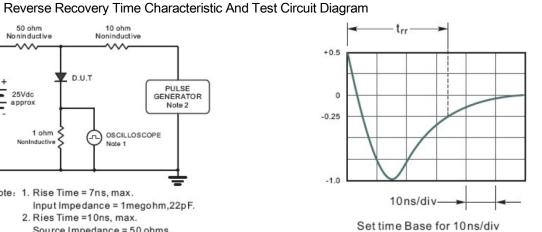
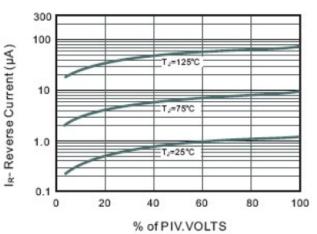
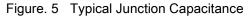
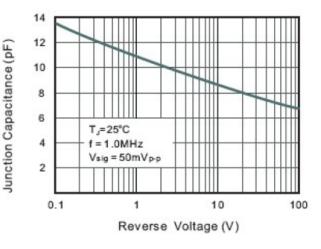


Figure. 3 Typical Reverse Characteristics





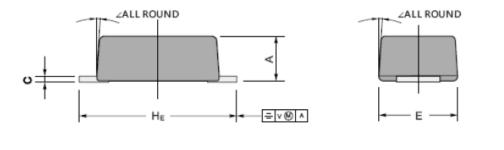


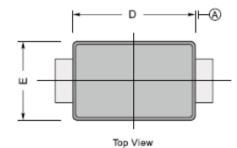


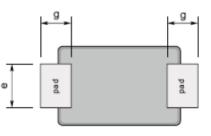
PACKAGE INFORMATION

Dimension in SMAF (Unit: mm)

Plastic surface mounted package; 2 leads

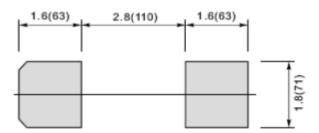






Bottom View

The recommended mounting pad size



Unit: mm(mil)

UN	IIT	А	В	С	Е	е	g	HE	2
mm	Max	1.3	0.23	3.7	2.7	1.6	1.3	4.9	
	Min	1.1	0.18	3.3	2.4	1.3	1.0	4.4	7°
mil	Max	51	9.1	146	106	63	51	193	1
	Min	43	7.1	130	94	51	39	173	



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