

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 Junction
- 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
- Approx. Weight: 27mg / 0.00095oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code:
ES2AF~ES2JF: ES2A~ES2J
Simplified outline SMAF and symbol

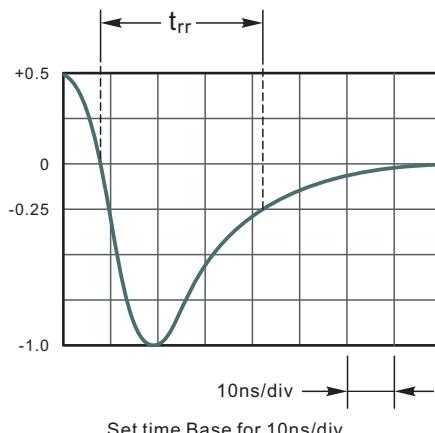
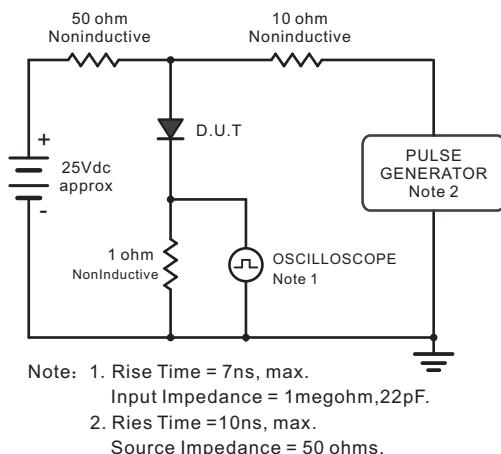
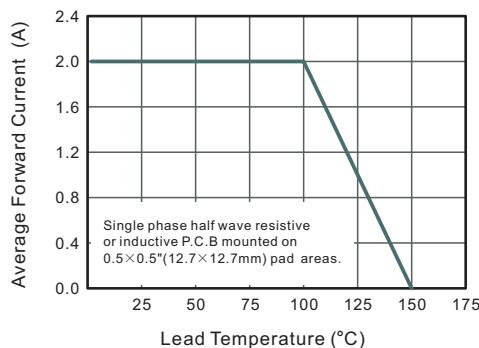
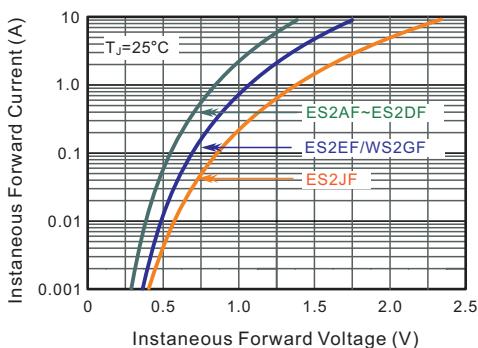
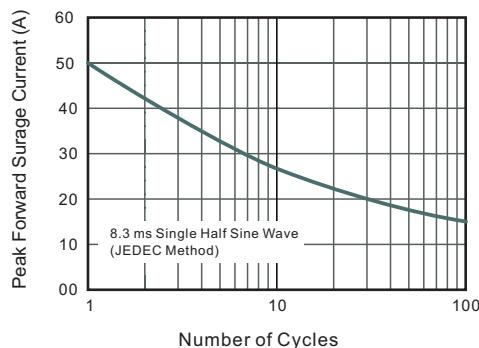
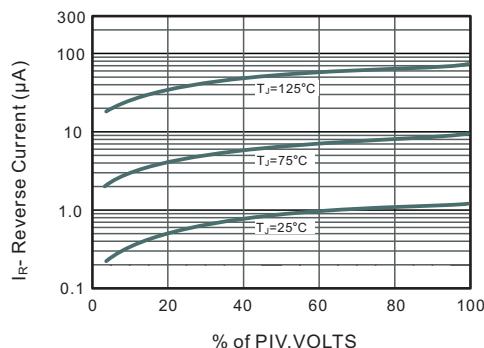
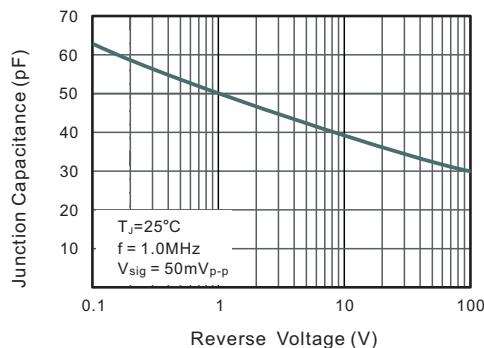
Absolute Maximum Ratings and Characteristics

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	ES2AF	ES2BF	ES2CF	ES2DF	ES2EF	ES2GF	ES2JF	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 _L = 100 °C	I _{F(AV)}	2						A					
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50						A					
Maximum Forward Voltage at 2A	V _F	1		1.25		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 _R =4V, f=1MHz	C _j	45						pF					
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}	35						ns					
Typical Thermal Resistance ²⁾	R _{θJA}	75						°C/W					
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150						°C					

1) Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A

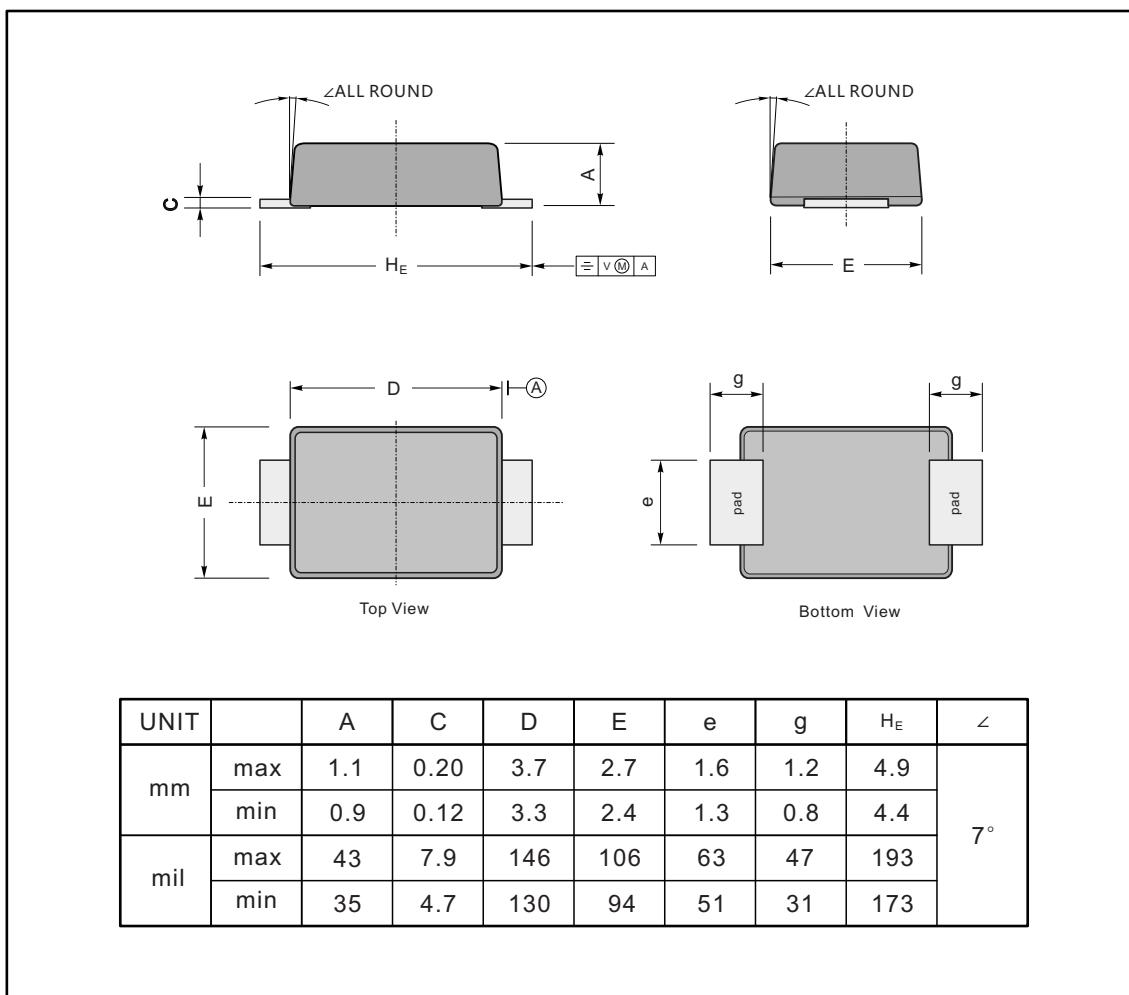
2) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram**Fig.2 Maximum Average Forward Current Rating****Fig.4 Typical Forward Characteristics****Fig.6 Maximum Non-Repetitive Peak Forward Surge Current****Fig.3 Typical Reverse Characteristics****Fig.5 Typical Junction Capacitance**

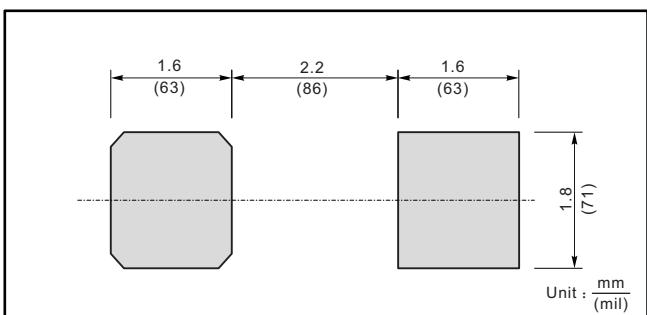
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

Type number	Marking code
ES2AF	ES2A
ES2BF	ES2B
ES2CF	ES2C
ES2DF	ES2D
ES2EF	ES2E
ES2GF	ES2G
ES2JF	ES2J

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