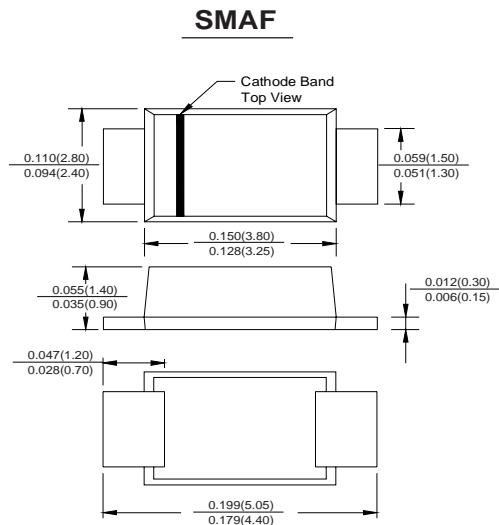


FEATURES

- 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 0.00086oz



Dimensions in inches and (millimeters)

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		1.7	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	C _j	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	T _j , T _{stg}	-55 ~ +150						°C			

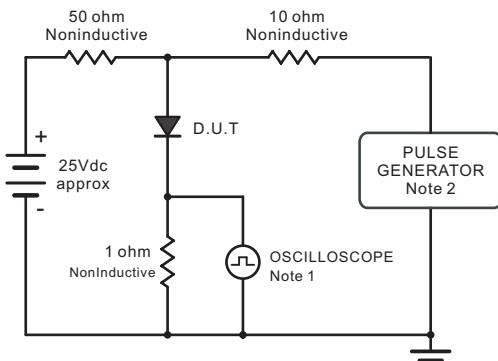


星合电子
XINGHE ELECTRONICS

ES2AF THRU ES2JF

Surface Mount Superfast Recovery Rectifier
Reverse Voltage – 50 to 600 V
Forward Current – 2 A

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.

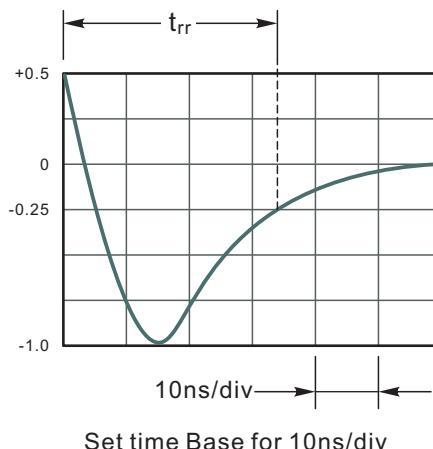


Fig.2 Maximum Average Forward Current Rating

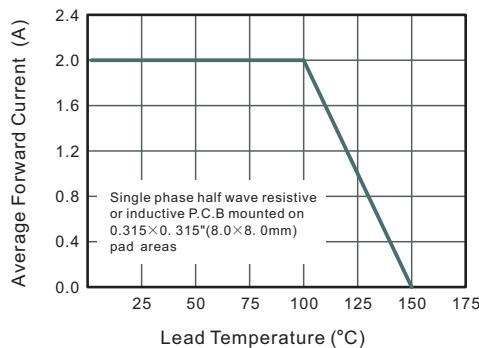


Fig.3 Typical Reverse Characteristics

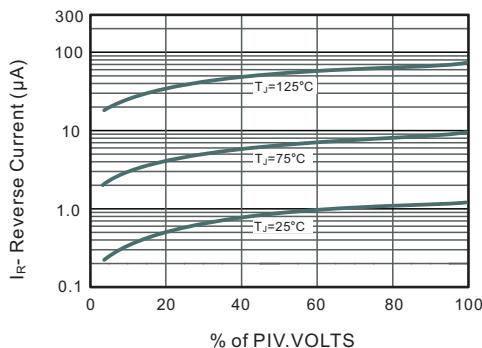


Fig.4 Typical Forward Characteristics

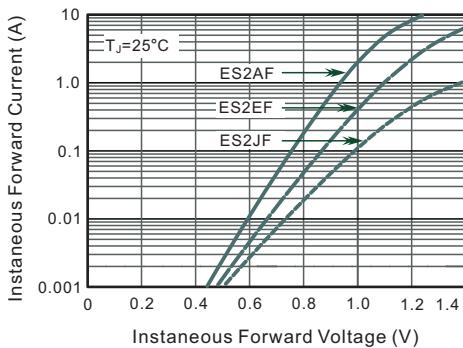


Fig.5 Typical Junction Capacitance

