

US2AF THRU US2MF

SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V Forward Current - 2 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Easy to pick and place
- High efficiency
- 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

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

urrent derate by 20 %.									
Parameter	Symbols	US2AF	US2BF	US2DF	US2GF	US2JF	US2KF	US2MF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	2.0						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50						Α	
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.0 1.4			1.7			٧	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R				5 100				μА
Maximum Reverse Recovery Time 1)	t _{rr}	50 75					ns		
Typical Thermal Resistance	R _{BJA}				50				°C/W

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

Operating and Storage Temperature Range

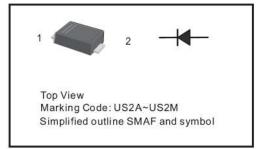
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PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



-55 ~ +150

 T_j , T_{stg}



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Fig.1 Forward Current Derating Curve

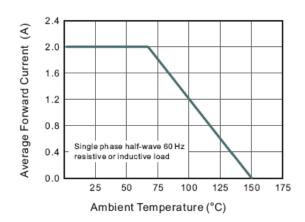


Fig.3 Typical Instaneous Forward Characteristics

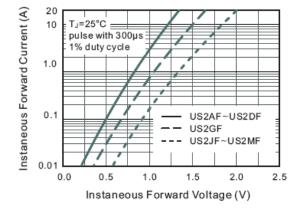


Fig. 2 Typical Reverse Characteristics

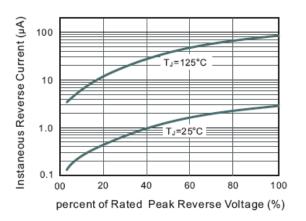
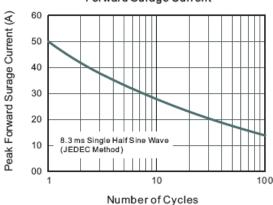


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



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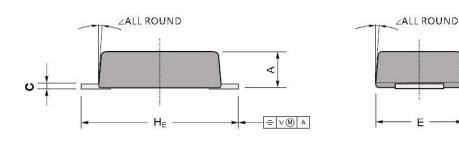


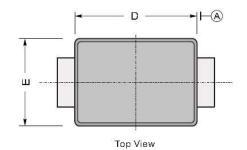
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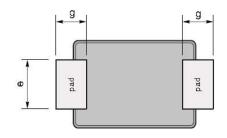
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



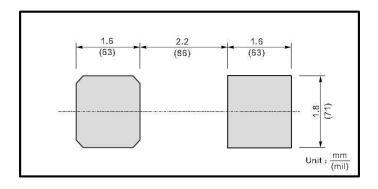




Bottom View

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	
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



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