

US3AF THRU US3MF

SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V Forward Current - 3 A

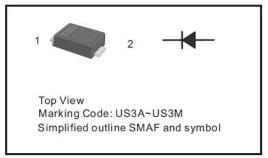
FEATURES

- 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

PINNING

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 current derate by 20 %.

Parameter	Symbols	US3AF	US3BF	US3DF	US3GF	US3JF	US3KF	US3MF	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
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	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	3						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100						A	
Maximum Instantaneous Forward Voltage at 3 A	V _F	1.0 1.4 1.7					V		
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R	5 300						μA	
Maximum Reverse Recovery Time ¹⁾	trr	75 63						ns	
Typical Thermal Resistance	R _{eja}	180						°C/W	
Operating and Storage Temperature Range	Tj, T _{stg}	-55 ~ +150						°C	

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

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Fig.1 Forward Current Derating Curve

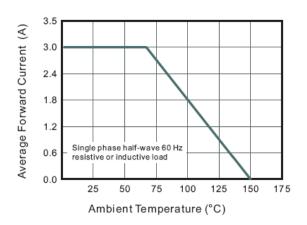


Fig.3 Typical Instaneous Forward Characteristics

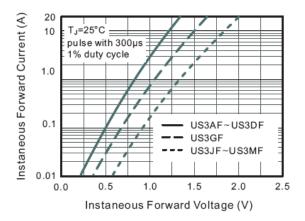


Fig.2 Typical Reverse Characteristics

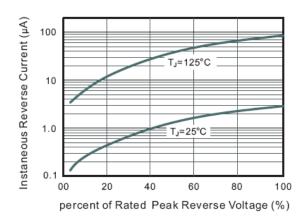
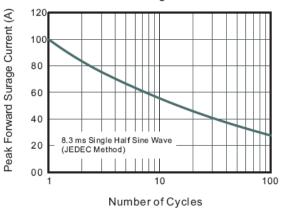


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



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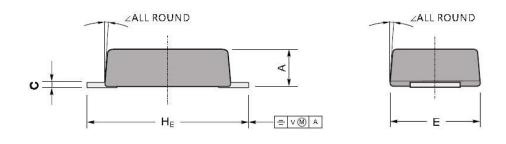


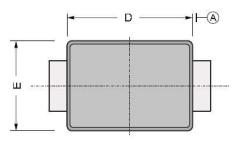
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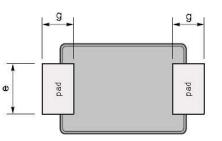
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF





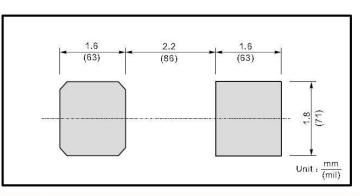


Top View

Bottom View

UNIT		А	С	D	Е	е	g	HE	Z	
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9		
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	7 °	
mil	max	43	7.9	146	106	63	47	193	<u>(</u>	
	min	35	4.7	130	94	51	31	173		

The recommended mounting pad size



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