

DESCRIPTION

The US2AF~US2MF are available in SMAF Package

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High efficiency
- Available in SMAF Package

MECHANICAL DATA

Case: SMAF

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 27mg 0.00086oz

Package Type	Part Number				
	US2AF				
SMAF	US2BF				
	US2DF				
	US2GF				
	US2JF				
	US2KF				
	US2MF				
Note	SPQ: 3,000pcs/Reel				
AiT provides all RoHS Compliant Products					

ORDERING INFORMATION

PIN DESCRIPTION





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

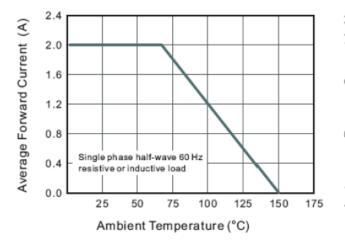
Ratings at 25 ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter		Symbol	US2AF	US2BF	US2DF	US2GF	US2JF	US2KF	US2MF	Unit
Maximum Repetitive Peak		V _{RRM}	50	100	200	400	600	800	1000	V
Reverse Voltage	Reverse Voltage									
Maximum RMS Volta	ge	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blockin	ig Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Fo	Maximum Average Forward		2.0							А
Rectified Current at T	Rectified Current at T _A =65°C									
Peak Forward Surge	Peak Forward Surge Current									
8.3ms Single Half Sine Wave		1	50							А
Superimposed on Rated Load		IFSM								
(JEDEC Method)	(JEDEC Method)									
Maximum Instantaneous		VF		1.0	1.4	1.7			v	
Forward Voltage at 2A		VF		1.0		1.4		1.7		
Maximum DC										
Reverse Current at			5.0 100							μA
Rated DC										
Blocking Voltage										
Maximum Reverse Recovery			50 75							
Time ^{NOTE1}		trr	50				75			ns
Typical Thermal Resistance		$R_{\theta JA}$	50					°C/W		
Operating and Storage		- -	T T							°C
Temperature Range		TJ, TSTG -55~150						°C		

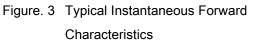
NOTE1: Measured with I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A



TYPICAL CHARACTERISTICS







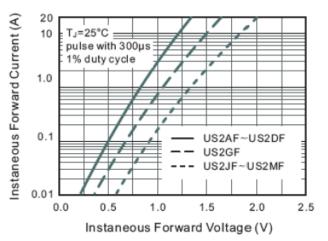


Figure. 2 Typical Reverse Characteristics

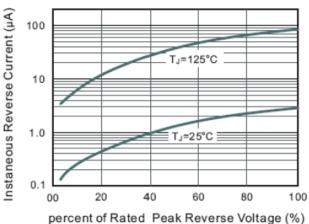
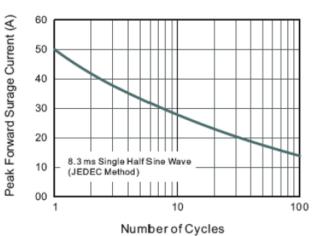


Figure. 4 Maximum Non-Repetitive Peak

Forward Surge Current

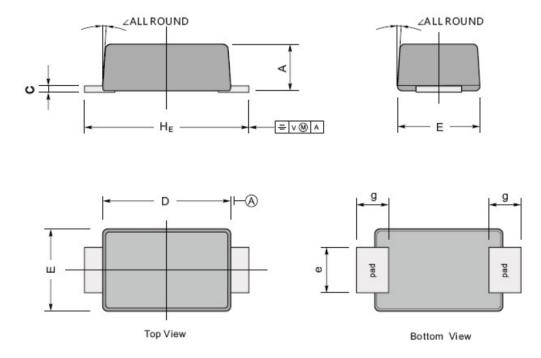




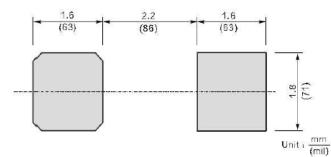
PACKAGE INFORMATION

Dimension in SMAF (Unit: mm)

Plastic surface mounted package; 2 leads



The recommended mounting pad size



UNIT		A	С	D	ш	e	g	HE	2	
mm	Max	1.1	0.20	3.7	2.7	1.6	1.2	4.9		
	mm	Min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	70
mil	Max	43	7.9	146	106	63	47	193	7°	
	Min	35	4.7	130	94	51	31	173		



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