

UMW SS32F THRU SS320F

20V-200V 3A

1.Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability

 For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

2.Mechanical Data

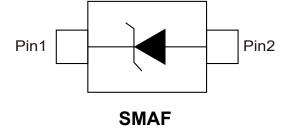
■ Case: SMAF

■ Approx. Weight: 27mg 0.00095oz

■ Terminals: Solderable per MIL-STD-750

Method 2026

3. Pinning information







4. Maximum Ratings And Electrical Characteristics

Parameter		Symbol	SS 32F	SS 34F	SS 36F	SS 38F	SS 310F	SS 312F	SS 315F	SS 320F	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage		V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current		I _{F(AV)}	3							Α	
Peak Forward Surge Current,8.3ms											
Single Half Sine-wave Superimposed		I _{FSM}	80				70			Α	
on Rated Load (JEDEC method)											
Max Instantaneous Forward Voltage at 3A		V _F	0.	55	0.	.7	0.	85	0.	95	V
Maximum DC Reverse Current	T _A =25°C			0.5			0.3			mA	
at Rated DC Reverse Voltage	T _A =100°C	l _R		5			3			mA	
Typical Junction Capacitance (Note1)		C	25	50		180			pF		
Typical Thermal Resistance (Note 2)		R _{eJA}	70						°C/W		
Junction Temperature Range		TJ	-55 to 150						°C		
Storage Temperature Range		T _{STG}	-55 to 150						°C		

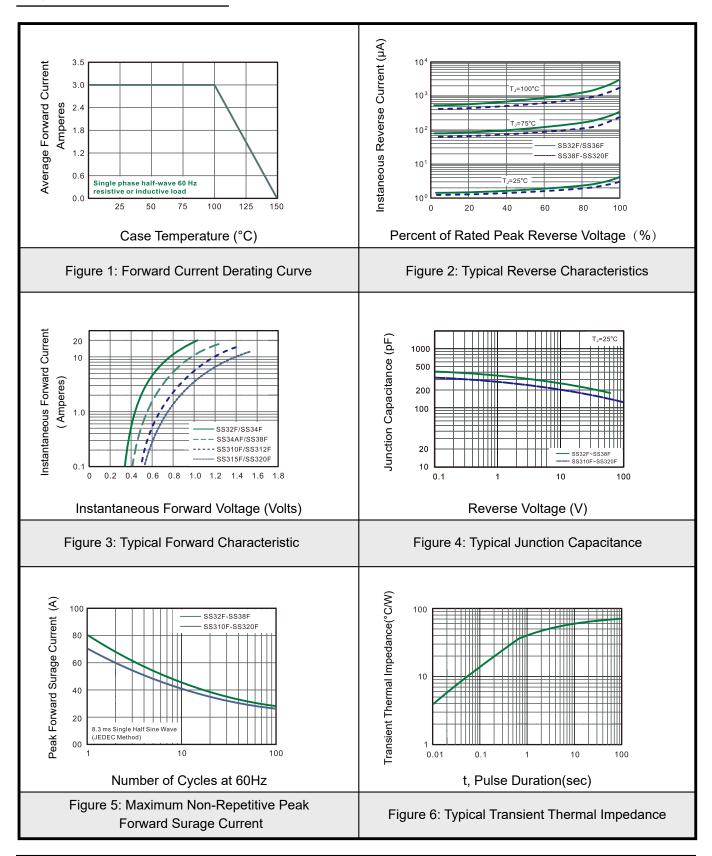
Absolute Maximum Ratings and Electrical characteristics Ratings at ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %. Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- (2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



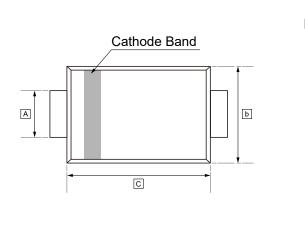


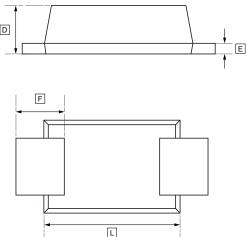
5. Typical characteristic





6.SMAF Package Outline Dimensions





DIMENSIONS (mm are the original dimensions)

Symbol	Α	b	С	D	E	F	L
Min	1.30	2.40	3.3	1.10	0.18	1.0	4.40
Max	1.60	2.70	3.7	1.30	0.23	1.30	4.90





7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SS32F	SS32	SMAF	3000	Tape and reel
UMW SS34F	SS34	SMAF	3000	Tape and reel
UMW SS36F	SS36	SMAF	3000	Tape and reel
UMW SS38F	SS38	SMAF	3000	Tape and reel
UMW SS310F	SS310	SMAF	3000	Tape and reel
UMW SS312F	SS312	SMAF	3000	Tape and reel
UMW SS315F	SS315	SMAF	3000	Tape and reel
UMW SS320F	SS320	SMAF	3000	Tape and reel







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