

UMW SS22 THRU SS220

20V-200V 2A

1.Features

- Ideal for surface mount applications
- Easy pick and place

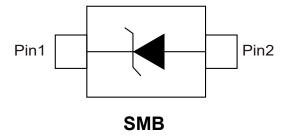
- Built-in strain relief
- Low forward voltage drop

2.Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any

- Weight: 0.063 grams
- Both normal and Pbfree product are available
- Normal:80~95%Sn,5~20%Pb
- Pbfree:99 Sn above can meet Rohs environment substance directive request

3. Pinning information







4. Maximum Ratings And Electrical Characteristics

Parameter	SS22	SS23	SS24	SS26	SS28	SS210	SS215	SS220	Units
Maximum Recurrent Peak Reverse Voltage		30	40	60	80	100	150	200	V
Maximum RMS Voltage		21	28	42	56	70	105	140	V
Maximum DC Blocking Voltage		30	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current							_		
See Fig.1	2					A			
Peak Forward Surge Current, 8.3 ms single half									
sine-wave	50						Α		
superimposed on rated load (JEDEC method)									
Maximum Instantaneous Forward Voltage at 2A		0.55		0.7	0.7 0.85			٧	
Maximum DC Reverse Current T _A =25°C	0.5				mA				
at Rated DC Blocking Voltage T _A =100°C	20					mA			
Typical Junction Capacitance (Note1)	170						pF		
Typical Thermal Resistance R _{eJA} (Note 2)	70						°C/W		
Junction Temperature Range T _J	-65 to 125 -65 to 150				°C				
Storage Temperature Range T _{STG}	-65 to 150				°C				

Rating 25°C ambient temperature unless otherwies specified.

Single phase half wave, 60Hz, resistive or inductive load.

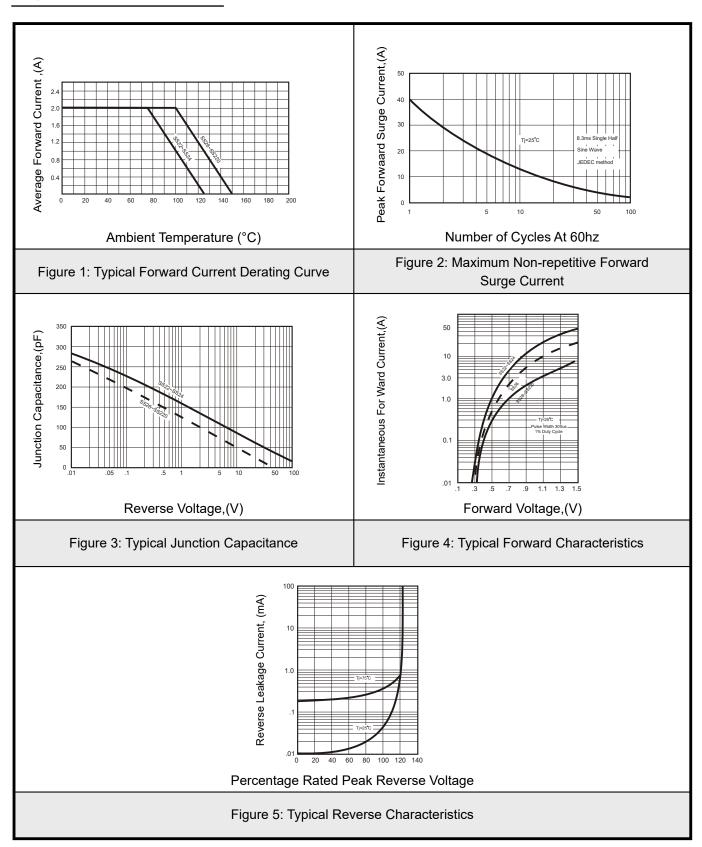
For capacitive load, derate current by 20%.

Notes:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient.

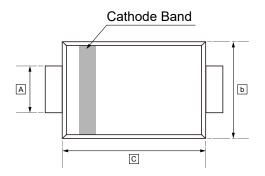


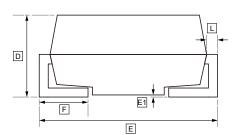
5. Typical characteristic





6.SMB Package Outline Dimensions





DIMENSIONS (mm are the original dimensions)

Symbol	Α	b	С	D	E	E1	F	٦
Min	1.95	3.30	4.06	2.13	5.10	0	0.76	0.152
Max	2.20	3.94	4.57	2.44	5.59	0.2	1.52	0.305





7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SS22	SS22	SMB	3000	Tape and reel
UMW SS23	SS23	SMB	3000	Tape and reel
UMW SS24	SS24	SMB	3000	Tape and reel
UMW SS26	SS26	SMB	3000	Tape and reel
UMW SS28	SS28	SMB	3000	Tape and reel
UMW SS210	SS210	SMB	3000	Tape and reel
UMW SS215	SS215	SMB	3000	Tape and reel
UMW SS220	SS220	SMB	3000	Tape and reel







8.Disclaimer

UMW reserves the right to make changes to all products, specifications. Customers should obtain the latest version of product documentation and verify the completeness and currency of the information before placing an order.

When applying our products, please do not exceed the maximum rated values, as this may affect the reliability of the entire system. Under certain conditions, any semiconductor product may experience faults or failures. Buyers are responsible for adhering to safety standards and implementing safety measures during system design, prototyping, and manufacturing when using our products to prevent potential failure risks that could lead to personal injury or property damage.

Unless explicitly stated in writing, UMW products are not intended for use in medical, life-saving, or life-sustaining applications, nor for any other applications where product failure could result in personal injury or death. If customers use or sell the product for such applications without explicit authorization, they assume all associated risks.

When reselling, applying, or exporting, please comply with export control laws and regulations of China, the United States, the United Kingdom, the European Union, and other relevant countries, regions, and international organizations.

This document and any actions by UMW do not grant any intellectual property rights, whether express or implied, by estoppel or otherwise. The product names and marks mentioned herein may be trademarks of their respective owners.