

UMW SS32 THRU SS320

20V-200V 3.0A

1.Features

- Plastic Package has Underwriters Laboratory
- Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- Low power loss, high efficiency

- High current capability, Low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters,
 free wheeling, and polarity protection applications
- High temperature soldering guaranteed : 250°C/10 seconds at terminals

2. Mechanical Data

- Case: JEDEC SMC(DO-214AB) molded plastic body
- Polarity : Color band denotes cathode end
- Terminals : Solder Plate, solderable per MIL-STD-750, Method 2026
- Weight: 0.003 ounce, 0.093 gram

3. Pinning information

Pin	Symbol	Description
1	С	Cathode
2	A	Anode









4. Maximum Ratings And Electrical Characteristics

Parameter		Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	SS 315	SS 320	Unit	
Maximum repetitive peak reverse voltage		V_{RRM}	20	30	40	50	60	90	100	150	200	V	
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	63	70	105	140	V	
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	90	100	150	200	V	
Maximum Average Forward Rectified Current		I _{F(AV)}	3						Α				
Peak Forward Surge Current, 8.3 ms Single													
Half Sine-wave Superimposed on Rated Load		I _{FSM}	100		70					А			
(JEDEC method)													
Maximum Instantaneous Forward	T _A =25°C	$V_{\rm F}$		0.5		0.	75	0.	85	0.9	95	V	
Voltage (Note 1) @ 3.0A	T _A =100°C	1		0.4		0.	65	0.	70	0.8	80	V	
Maximum Reverse	T _A =25°C		0.5				0.1						
	T _A =100°C	I _R		10		į	5					mA	
Current @ Rated V _R	T _A =125°C		·					0.5					
Typical Thermal Resistance		R _{eJL}	17					°C/W					
		R _{θJA}	55						°C/W				
Junction temperature range		TJ	-55 to 125 -55 to 150						°C				
Storage temperature range		T _{STG}	-55 to 150						°C				

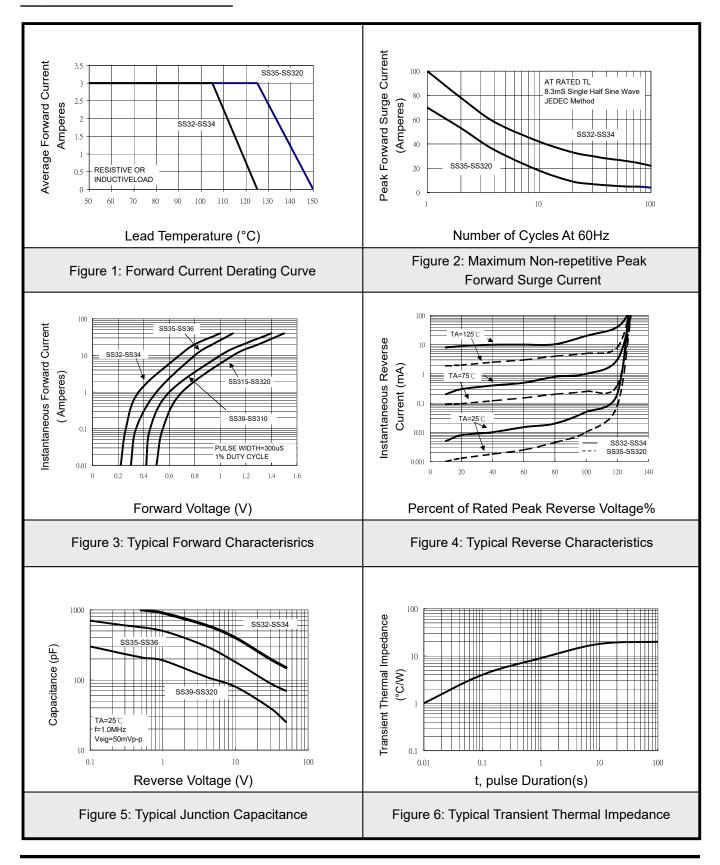
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Notes:

1.Pluse Test with PW=300 usec, 1% Duty Cycle.



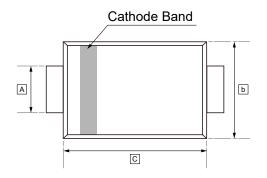
5. Typical characteristic

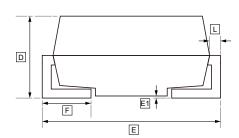






6.SMC(DO-214AB) Package Outline Dimensions





DIMENSIONS (mm are the original dimensions)

Symbol	Α	b	С	D	E	E1	F	L
Min	3.30	5.59	6.60	2.06	7.75	0.00	0.76	0.152
Max	3.94	6.22	7.11	2.62	8.13	0.20	1.52	0.305



7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SS32C	SS32	SMC	3000	Tape and reel
UMW SS33C	SS33	SMC	3000	Tape and reel
UMW SS34	SS34	SMC	3000	Tape and reel
UMW SS35C	SS35	SMC	3000	Tape and reel
UMW SS36C	SS36	SMC	3000	Tape and reel
UMW SS39C	SS39	SMC	3000	Tape and reel
UMW SS310C	SS310	SMC	3000	Tape and reel
UMW SS315C	SS315	SMC	3000	Tape and reel
UMW SS320C	SS320	SMC	3000	Tape and reel







8.Disclaimer

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