





DO-214AA(SMB)

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	50		41	_

- · Low Profile Package
- · Ideal for Automated Placement
- · Guard Ring for Over Voltage Protection
- Low Forward Voltage Drop

Primary Characteristics			
I _F	2	Α	
V_{RRM}	100	V	
I _{FSM}	130	Α	
V _F	0.79	V	
T _J max	175	°C	

Mechanical Data

· Case: DO-214AA(SMB)

Case Material : Molded Plastic. UL
Flammability Classification Rating 94V-0

Terminals: Lead Free Plating (Tin Finish).
Solderable per MIL-STD-202, Method 208

· Polarity : Cathode Band

• Weight: 0.095 grams (approximate)

Ordering Information				
Part No.	Remark	Package	Packing	
SM2100UB	General			
SM2100UB-H	Halogen Free	SMB	3000 / Tape & Reel	
SM2100UB-Q	AEC-Q101 qualified			

Maximum Ratings (TA=25°C unless otherwise noted)			
Parameter	Symbol	SM2100UB	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _F	2	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	130	А
Maximum Instantaneous Forward Voltage IF=2A @ 25°C	V _F	0.79	V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	0.008 1.5	mA
Typical Junction Capacitance (NOTE1)	C _j	140	pF
Typical Thermal Resistance	$R_{\theta JC}$	35	°C/W
Operating Temperature Range	T _J	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C
Marking Code		2100UB	

NOTES:

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC





Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

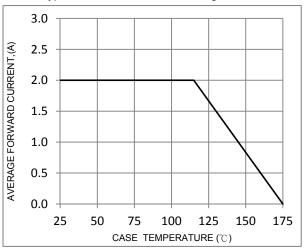


FIG. 3-Maximum Non-Repetitive Forward Surge Current

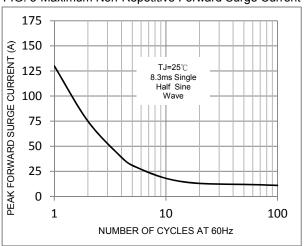


FIG. 5-Typical Junction Capacitance

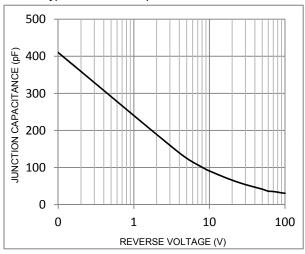


FIG. 2-Typical Forward Characteristics

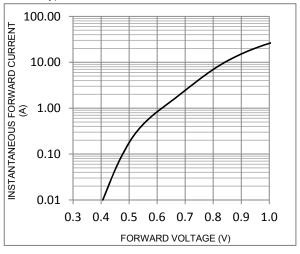
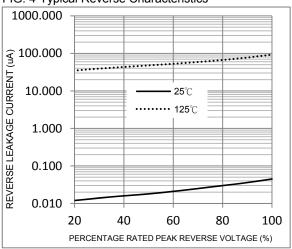


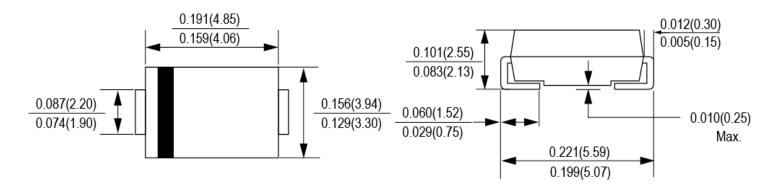
FIG. 4-Typical Reverse Characteristics





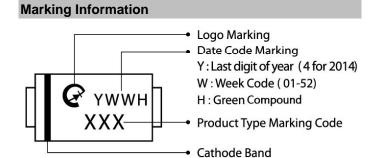


Package Outline Dimensions



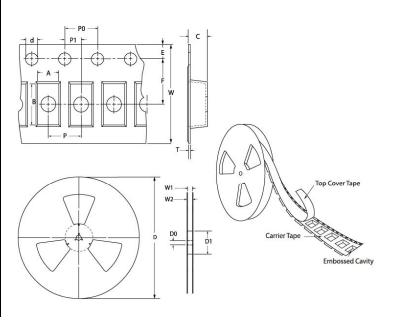
DO-214AA(SMB)

Dimensions in inches and (millimeters)



Suggested Pad Layout			
Outline Dimension	SMB (DO-214AA)	la e e e e e e e	
Α	6.80		
В	1.80		
С	2.30		
D	2.50	D	
Е	4.30	A	

Tape & Reel Specification			
Item	Cumbal	SMB(mm)	
item	Symbol	DO-214AA	
Carrier width	Α	4.0(max)	
Carrier length	В	5.9(max)	
Carrier depth	С	3.0(max)	
Sprocket hole	d	1.50±0.1	
Reel outside diameter	D	330±2.0	
Feed hole diameter	D0	13.5±1	
Reel inner diameter	D1	50 (min.)	
Sprocket hole position	E	1.75±0.1	
Punch hole position	F	5.5±0.05	
Sprocket hole pitch	Р	8.0±0.1	
Sprocket hole pitch	P0	4.0±0.1	
Embossment center	P1	2.0±0.05	
Overall tape thickness	Т	0.6 (max)	
Tape width	W	12.0±0.3	
Reel width	W2	18.4 (max)	
Reel width	W1	14.4 (max)	







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