

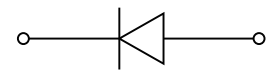
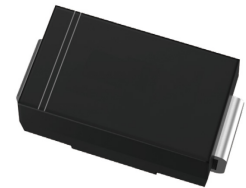
Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C

Reverse Voltage
20-200 V

Forward Current
2 Ampere

DO-214AA(SMB)



Applications

For use in low voltage high frequency inverters, free wheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

- Case: DO-214AA(SMB)
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS22B	SS24B	SS245B	SS26B	SS28B	SS210B	SS215B	SS220B
Device marking code			SS22B	SS24B	SS245B	SS26B	SS28B	SS210B	SS215B	SS220B
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	20	40	45	60	80	100	150	200
Maximum RMS Voltage	V _{RMS}	V	14	28	31.5	42	56	70	105	140
Maximum DC blocking Voltage	V _{DC}	V	20	40	45	60	80	100	150	200
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load,TL (Fig.1)	I _{F(AV)}	A	2.0							
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I _{FSM}	A	50							
Storage temperature	T _{stg}	°C	-55 ~ +150							
Junction temperature	T _j	°C	-55 ~ +125				-55 ~ +150			
Typical Thermal Resistance	R _{θJ-A}	°C /W	60							
	R _{θJ-L}	°C /W	17							

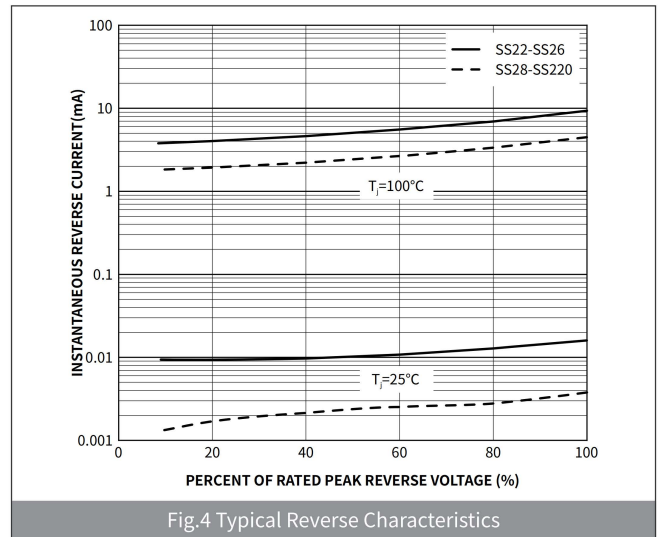
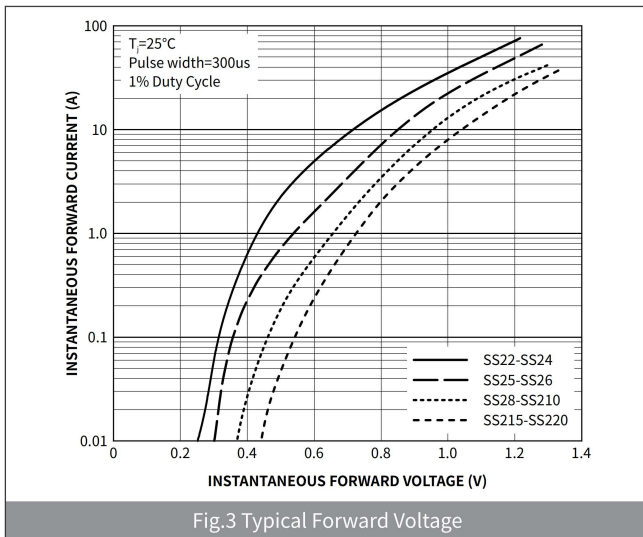
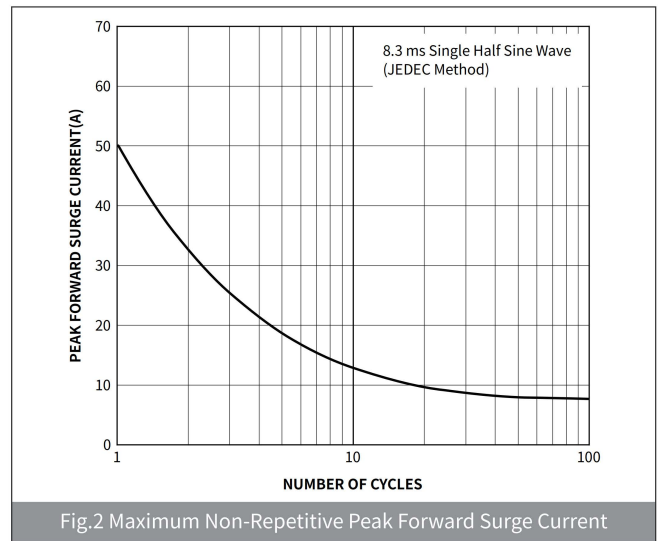
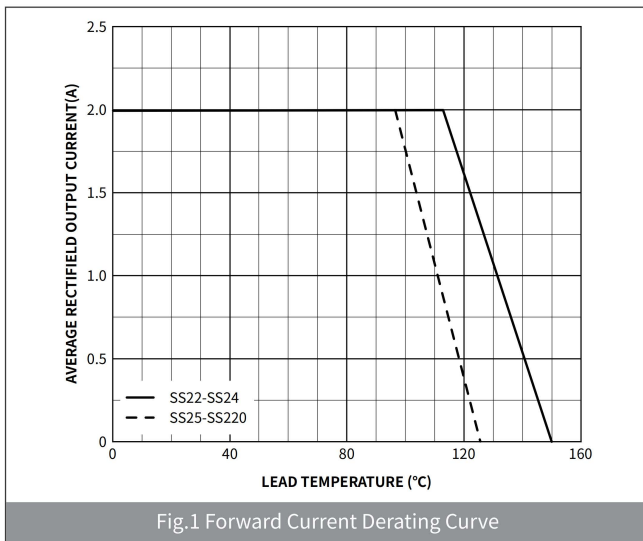
Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	TEST CONDITIONS		SYMBOL	UNIT	SS22B	SS24B	SS245B	SS26B	SS28B	SS210B	SS2150B	SS2200B
Maximum instantaneous forward voltage	I _F =2.0A		V _F	V	0.55			0.70	0.85		0.95	
Maximum DC reverse current at rated DC blocking voltage	V _{RM} =V _{DC}	Ta=25°C	I _R	mA	0.2				0.02			
		Ta=100°C			10				5.0			
Typical junction capacitance	4.0V DC,1MHz		C _J	pF	220			180				

Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	
Maximum instantaneous forward voltage	I _F =2.0A	V _F	V	0.55			0.70		0.85		0.95		
Maximum DC reverse currentat rated DC blocking voltage	V _R =V _{DC} , T _A =25°C	I _{R1}	mA	0.2					0.05				
	V _R =V _{DC} , T _A =100°C	I _{R2}		10					5				
Typical junction capacitance	4.0V DC,1MHz	C _J	pF	220			80						

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

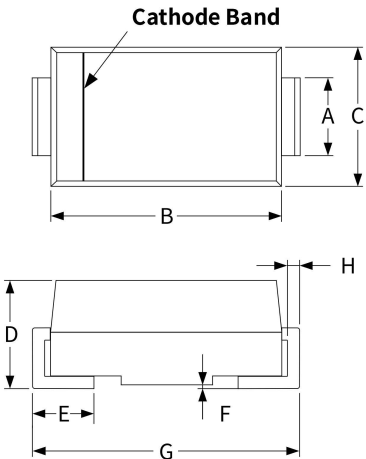


Ordering Information

PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SMA	R2	0.07	5000	10000	80000	11"
SMA	R3	0.07	7500	15000	120000	13"

Package Outline Dimensions (SMA/DO-214AC)

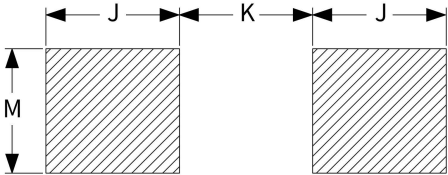
Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.25	1.65	0.049	0.065
B	3.95	4.65	0.156	0.183
C	2.35	2.85	0.093	0.112
D	1.98	2.41	0.078	0.095
E	0.76	1.52	0.030	0.060
F	-	0.203	-	0.008
G	4.70	5.30	0.185	0.209
H	0.15	0.31	0.006	0.012



The diagram shows two views of the SMA package. The top view is a rectangle with dimensions A (height of the cathode band), B (width), and C (total height). A label 'Cathode Band' points to the top edge. The bottom view is a side profile showing dimensions D (total height), E (height of the main body), F (height of the cathode band), G (width), and H (height of the cathode band).

Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
M	1.70	-	0.067	-
J	2.10	-	0.082	-
K	-	2.30	-	0.090



The diagram shows a top view of the suggested pad layout. It consists of two rectangular pads. The width of each pad is J, the height is M, and the distance between the pads is K.