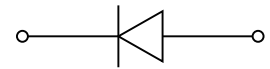


Features

- 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

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							

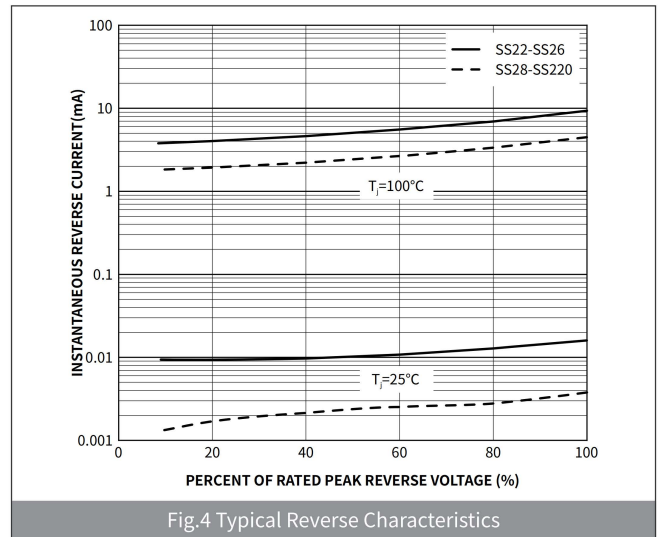
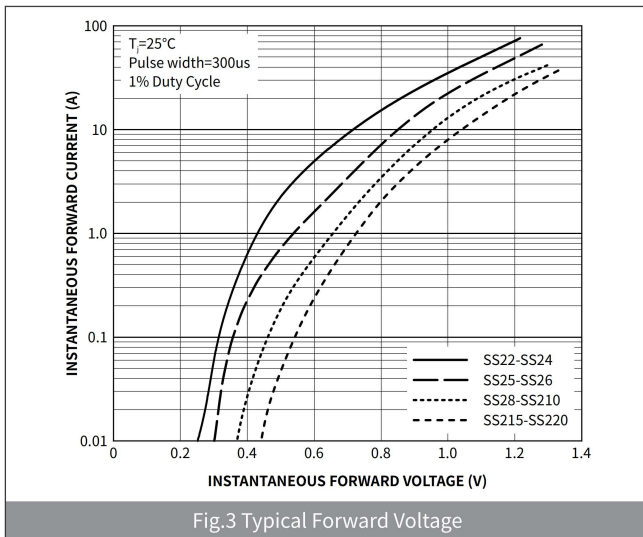
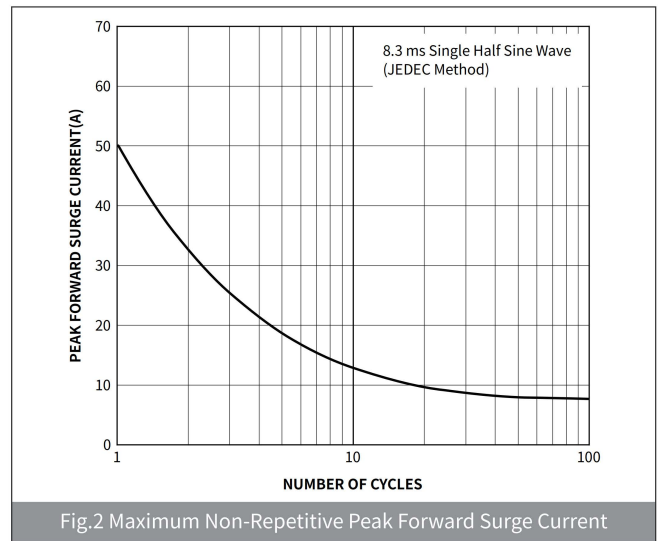
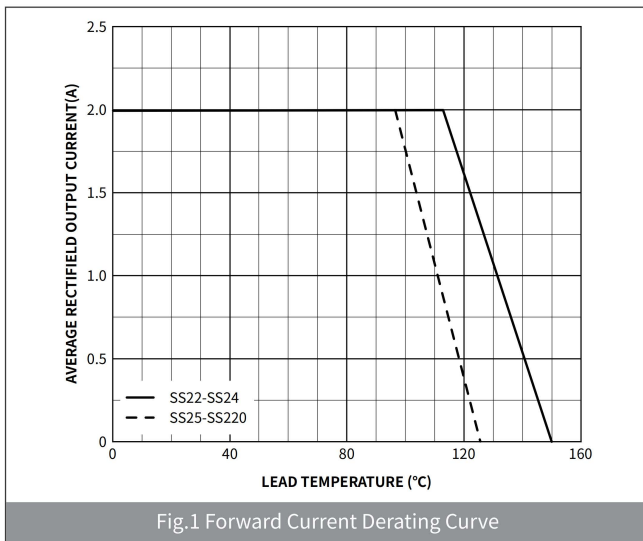
Electrical Characteristics (Ta=25°C Unless otherwise specified)

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)

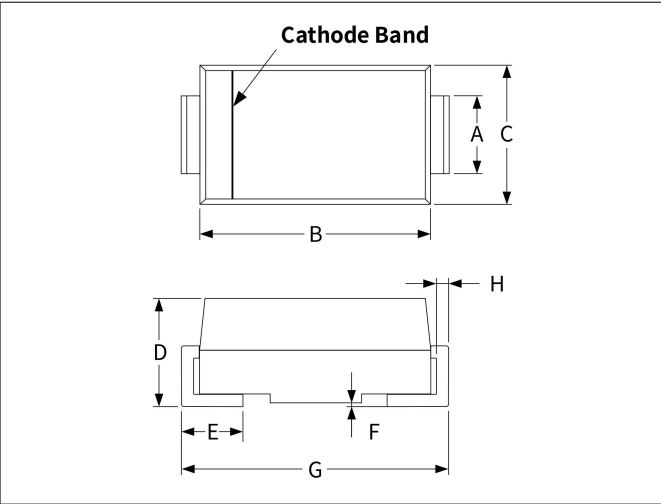


Ordering Information

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)

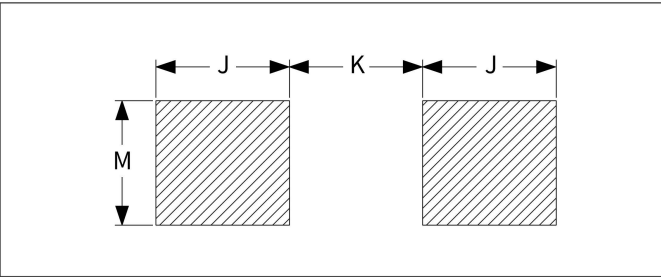
Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.25	1.65	0.049	0.065
B	3.95	4.65	0.156	0.183
C	2.35	2.85	0.093	0.112
D	1.98	2.41	0.078	0.095
E	0.76	1.52	0.030	0.060
F	-	0.203	-	0.008
G	4.70	5.30	0.185	0.209
H	0.15	0.31	0.006	0.012



The diagram shows two views of the SMA package. The top view is a rectangle with dimensions B (width) and C (height). A vertical line on the left side is labeled 'Cathode Band'. The bottom view is a cross-section showing the package's profile with dimensions A (height of the main body), D (height of the base), E (width of the base), F (width of the base), G (total width), and H (height of the base).

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 suggested pad layout for the SMA package. It consists of two rectangular pads, each with a width of J and a height of M. The distance between the centers of the two pads is K.