



SSC SSS52DB THRU SSC SSS520DB

Schottky Barrier Diode

● Features

- ✧ Reverse Voltage - 20 to 200 V
- ✧ Forward Current - 5.0A
- ✧ Low profile package
- ✧ Ideal for automated placement
- ✧ Ultrafast reverse recovery time
- ✧ Low power losses, high efficiency
- ✧ Low forward voltage
- ✧ High surge capability
- ✧ UL Flammability Classification Rating 94V-0
- ✧ High temperature soldering: 260°C/10 seconds at terminals

● PIN configuration



SMB/DO-214AA



Circuit Diagram

● Applications

- ✧ Low Voltage
- ✧ High-Frequency Inverters
- ✧ Free Wheeling
- ✧ Polarity Protection



Marking

(SS54:SSC SSS54DB Marking Code)

● Mechanical data

- ✧ Device meets MSL 3 requirements

● Absolute maximum rating @T_A=25°C

Parameter	Symbol	SSC SSS								Unit
		52DB	54DB	545DB	56DB	58DB	510DB	515DB	520DB	
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	20	40	45	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	31.5	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	45	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0								A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	120.0								A



SSC555XDB

Maximum instantaneous forward voltage at 5.0A	V _F	0.55	0.70	0.85	0.95	V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	0.2 10			0.05 5	mA
Operating Temperature	T _J	-55 ~ +125				°C
Storage Temperature	T _{STG}	-55 ~ +150				°C

● Typical Performance Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

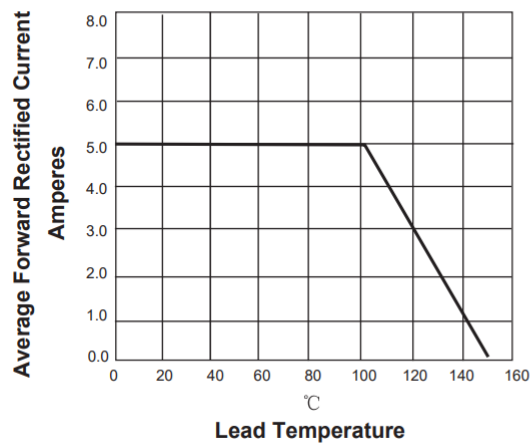


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

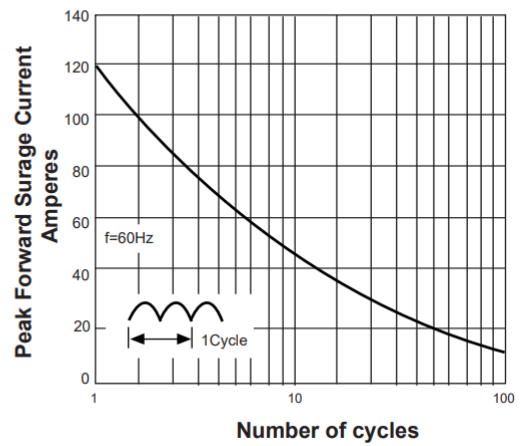


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

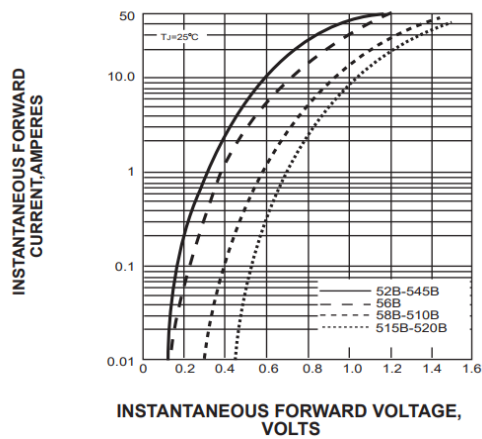
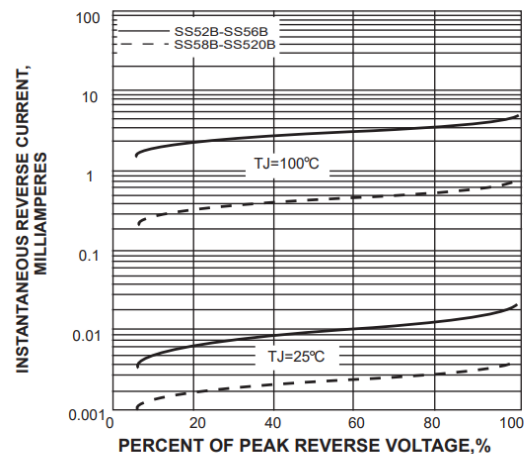


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





● Package Information

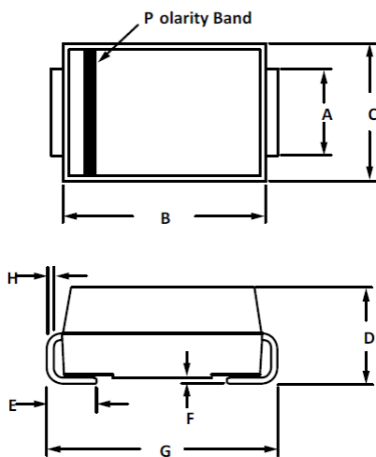
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSC552DB	SMB/DO-214AA	SS52	3000	13 Inch
SSC554DB	SMB/DO-214AA	SS54	3000	13 Inch
SSC5545DB	SMB/DO-214AA	SS545	3000	13 Inch
SSC556DB	SMB/DO-214AA	SS56	3000	13 Inch
SSC558DB	SMB/DO-214AA	SS58	3000	13 Inch
SSC5510DB	SMB/DO-214AA	SS510	3000	13 Inch
SSC5515DB	SMB/DO-214AA	SS515	3000	13 Inch
SSC5520DB	SMB/DO-214AA	SS520	3000	13 Inch

Mechanical Data

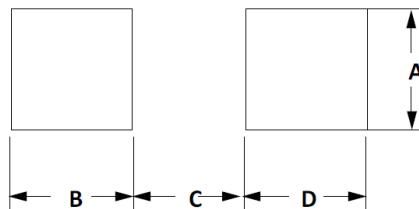
Case: SMB/DO-214AA

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters	
	Min	Max
A	1.90	2.1
B	4.22	4.70
C	3.40	3.94
D	2.00	2.50
E	0.90	1.42
F	0.00	0.23
G	5.21	5.59
H	0.15	0.31

Recommended Pad outline



DMI	Millimeters	
	Min	Max
A	2.15	
B	1.45	
C	-	2.55
D	1.45	



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