



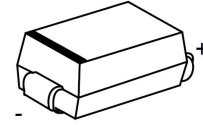
SSCFUS5ADB THRU SSCFUS5MDB

5.0Amp Ultra Fast Recovery Surface Mounted Rectifiers

● Features

- ✧ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ✧ Construction utilizes void-free molded plastic technique
- ✧ Low reverse leakage
- ✧ High forward surge current capability
- ✧ High temperature soldering guaranteed 260°C/10 seconds at terminals

● PIN configuration



SMB/DO-214AA



Circuit Diagram

● Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ✧ Polarity: Polarity symbol marking on body
- ✧ Mounting Position: Any



Marking

(US5D: SSCFUS5DDB Marking Code)

● Absolute Maximum Rating @T_A=25°C

Parameter	Symbol	SSCFUS5							Unit
		ADB	BDB	DDB	GDB	JDB	KDB	MDB	
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0							A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	150.0							A
Max Instantaneous Forward Voltage at 5.0 A	V _F	1.0			1.4	1.7			V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	2.0 200							μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50				75			ns
Typical Junction Capacitance (Note 2)	C _J	75.0							pF
Typical Thermal Resistance	R _{QJA}	60.0							°C/W
Operating Temperature and Storage Temperature	T _J , T _{STG}	-55 ~ +150							°C

Note: 1. Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A

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



● Typical Performance Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

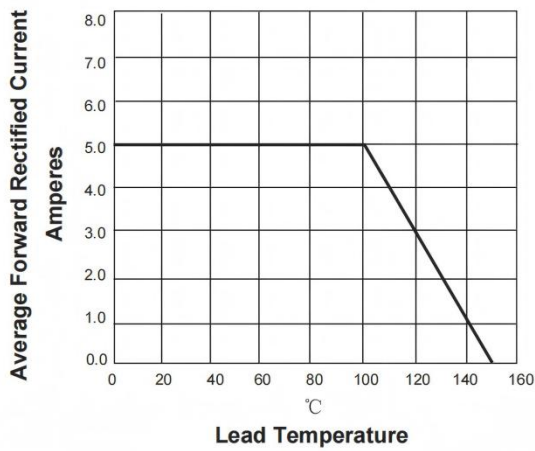


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

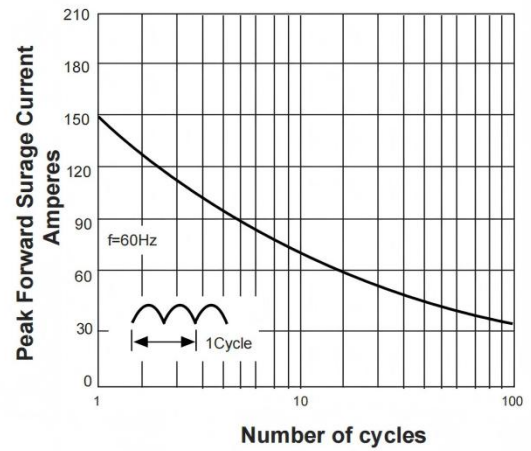


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

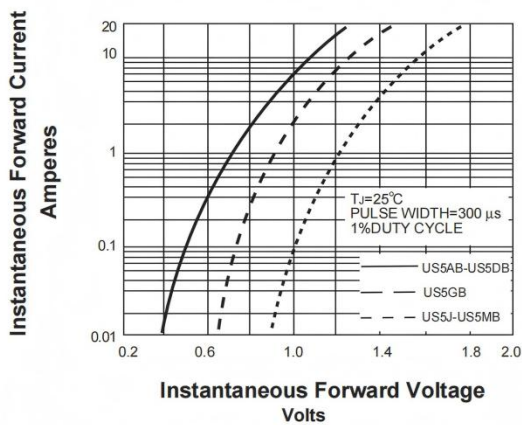
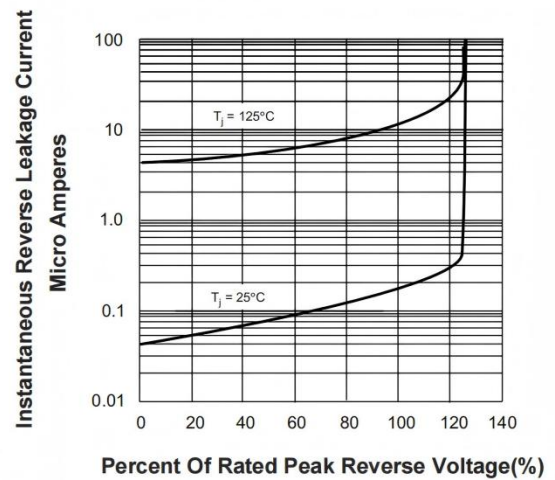


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





● Package Information

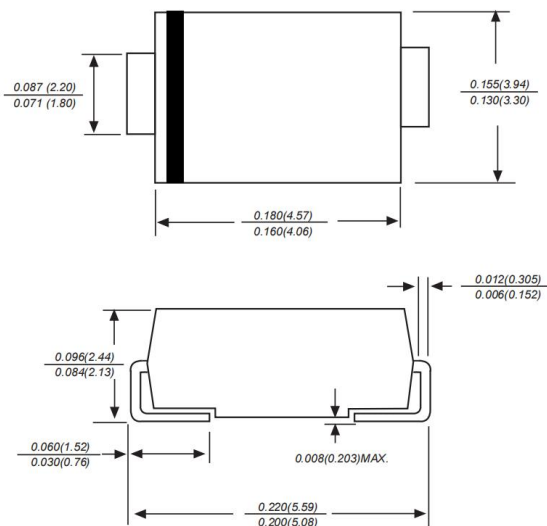
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCFUS5ADB	SMB/DO-214AA	US5A	3000	13 Inch
SSCFUS5BDB	SMB/DO-214AA	US5B	3000	13 Inch
SSCFUS5DDB	SMB/DO-214AA	US5D	3000	13 Inch
SSCFUS5GDB	SMB/DO-214AA	US5G	3000	13 Inch
SSCFUS5JDB	SMB/DO-214AA	US5J	3000	13 Inch
SSCFUS5KDB	SMB/DO-214AA	US5K	3000	13 Inch
SSCFUS5MDB	SMB/DO-214AA	US5M	3000	13 Inch

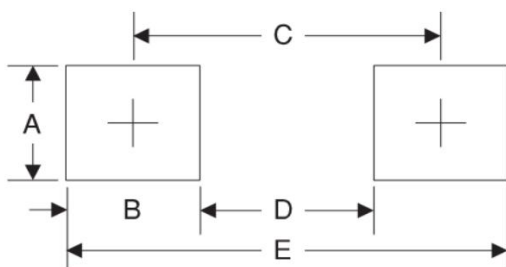
Mechanical Data

Case: SMB/DO-214AA

Case Material: Molded Plastic. UL Flammability



Recommended Pad outline (Unit: mm)



Symbol	Unit (mm)	Unit (inch)
A	2.30	0.091
B	2.00	0.078
C	4.10	0.161
D	2.10	0.083
E	6.10	0.240



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