

# SS215FL thur SS220FL

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## Schottky Barrier Rectifier in SOD-123FL

#### Features

- Schottky barrier diodes
- Low forward voltage drop
- High Tunction Temperature
- Moisture sensitivity: level 1, per J-STD-020
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21 definition



### Applications

For use of fast swiching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

Absolute Maximum Ratings Ratings at 25 °C, ambient temperature unless otherwise specified				
Parameter	Symbol	SS215FL	SS220FL	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	150	200	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	2.	.0	А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	40		А
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	- 55	to + 150	C

Electrical Characteristics					
(T <sub>A</sub> = 25 °C unless otherwise specified)					
Parameter	Test Conditions	Symbol	SS215FL	SS220FL	Unit
Maximum instantaneous forward voltage	I <sub>F</sub> =2A, T <sub>A</sub> =25℃	V <sub>F</sub>	0.85	0.95	V
Maximum DC reverse current	T <sub>A</sub> =25℃	1_	0.	1	mA
at rated DC blocking voltage	T <sub>A</sub> =100℃	I <sub>R</sub>	2.0		11// (
Typical junction capacitance	4.0 V, 1 MHz	CJ	80	)	pF

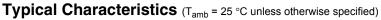
Thermal Characteristics					
Parameter	Symbol	SS215FL	SS220FL	Unit	
	R <sub>θJA</sub>	9	5		
Typical thermal resistance <sup>(1)</sup>	R <sub>θJC</sub>	4	5	°C/W	
	R <sub>θJI</sub>	2	0		

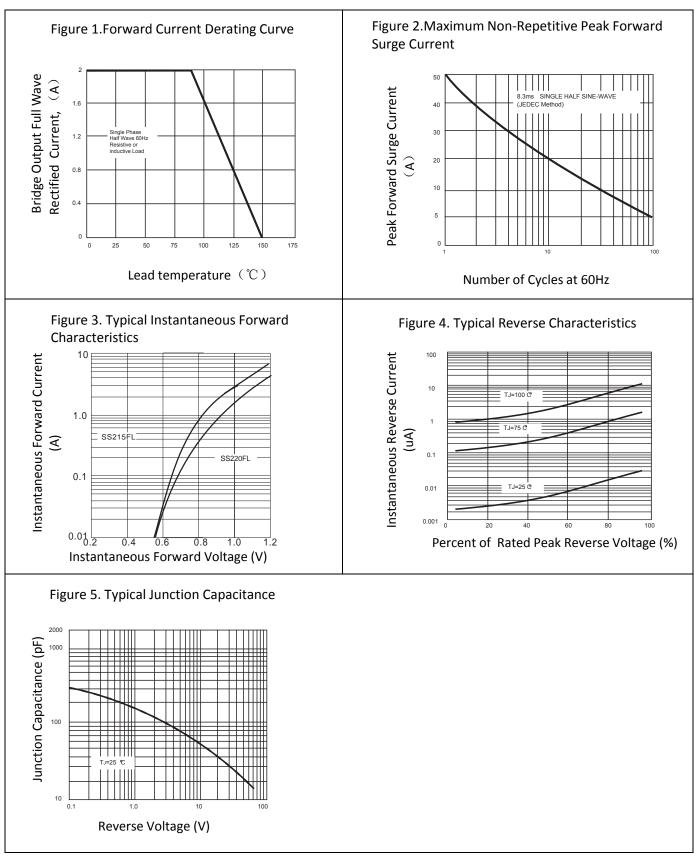
Note1:Thermal resistance from junction to lead,mounted on PCB with 5.0×5.0mm copper pads

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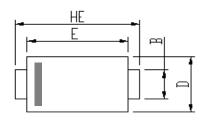


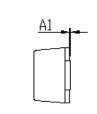


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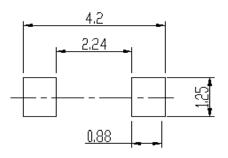
### **Package Dimensions**

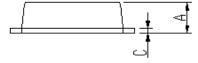


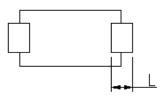


DIM	Unit: mm		Unit:	inch
	MIN	MAX	MIN	MAX
Α	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
В	0.85	1.05	0.033	0.041
С	0.1	0.25	0.004	0.010
D	1.7	2	0.067	0.079
Е	2.9	3.1	0.114	0.122
L	0.43	0.83	0.017	0.033
HE	3.5	3.9	0.138	0.154

Soldering footprint







### **Ordering inormation**

Order code	Package	Packaging option	Base quantity	Packaging specification
SS2xxFL	SOD-123FL	Tape and reel	3000pcs / reel	EIA STD RS-481

#### **Reision history**

Date	Revision	Changes
23-May-2012	1.0	Initial release

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