

#### Surface Mount Schottky Barrier Rectifier



• Approx. Weight : 0.0006 ounces, 0.017 grams



#### **Maximum Ratings** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	SS2020FL-AU	SS2030FL-AU	SS2040FL-AU	UNIT	
Maximum Repetitive Peak Reverse Voltage	Vrrm	20	30	40	V	
Maximum Rms Voltage	V <sub>RMS</sub>	14	21	28	V	
Maximum DC Blocking Voltage	VR	20	30	40	V	
Maximum Average Forward Rectified Current	IF(AV)	2				
Peak Forward Surge Current : 8.3ms Single Half Sine- Wave Superimposed On Rated Load	IFSM	50				
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	100			pF	
(Note 1) Typical Thermal Resistance	R <sub>0JA</sub>	200				
(Note 2)	Rejc	32				
Operating Junction Temperature Range	TJ	-55 to +150			°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150			°C	



### **Electrical Characteristics**

DADAMETED		TEST CONDITION		SS2020FL-AU		SS2030FL-AU		SS2040FL-AU		
PARAMETER	SYMBOL			TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	UNIT
Forward Voltage		I <sub>F</sub> = 1A	TJ =25 ℃	0.41	-	0.41	-	0.41	-	v
		IF = 2A		-	0.5	-	0.5	-	0.5	
	Vf	I <sub>F</sub> = 1A	TJ =125 ℃	0.32	-	0.32	-	0.32	-	
		I <sub>F</sub> = 2A		0.41	-	0.41	-	0.41	-	
Reverse Current <sup>(Note 3)</sup>	IR	V <sub>R</sub> = 10V	Tj=25°C	2	-	2	-	2	-	uA
		$V_R = 20V$		-	100	3	-	3	-	
		$V_R = 30V$		-	-	-	100	7	-	
		$V_R = 40V$		-	-	-	-	-	100	
		$V_R = 20V$	TJ =125 ℃	3	-	3	-	3	-	mA
		$V_R = 30V$		-	-	5	-	5	-	
		$V_R = 40V$		-	-	-	-	6.5	-	

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.

3. Short duration pulse test used to minimize self-heating effect.







#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
SS2020FL-AU	SOD-123FL	3K pcs / 7" reel	GM
SS2030FL-AU	SOD-123FL	3K pcs / 7" reel	GN
SS2040FL-AU	SOD-123FL	3K pcs / 7" reel	GP

### Packaging Information & Mounting Pad Layout





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