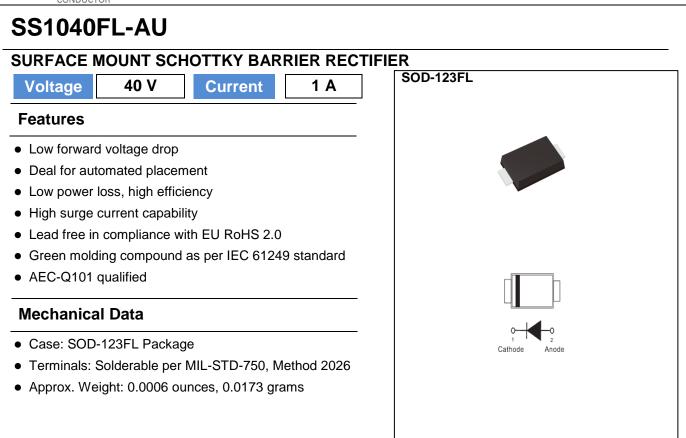
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25<sup>o</sup>C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	40	V
Maximum Rms Voltage	V <sub>RMS</sub>	28	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	40	V
Maximum Average Forward Current	IF(AV)	1	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	40	А
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	60	pF
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup> R <sub>θJC</sub> <sup>(2)</sup>	200 32	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Tstg	-55~150	°C



#### **Electrical Characteristics** (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage V <sub>F</sub>		I⊧ = 0.5 A, TJ = 25 °C	-	0.41	-	
	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	-	0.55	Ň	
	VF	I⊧ = 0.5 A, TJ = 125 °C	-	0.31	-	V
	I⊧ = 1 A, TJ = 125 °C	-	0.4	-		
Reverse Current I <sub>R</sub> <sup>(3)</sup>	V <sub>R</sub> = 32 V, T <sub>J</sub> = 25 °C	-	3.3	-		
	$V_R = 40 V, T_J = 25 °C$	-	-	30	uA	
	V <sub>R</sub> = 40 V, T <sub>J</sub> = 125 °C	-	3	-	mA	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm<sup>2</sup> copper pad area
- 3. Short duration pulse test used to minimize self-heating effect



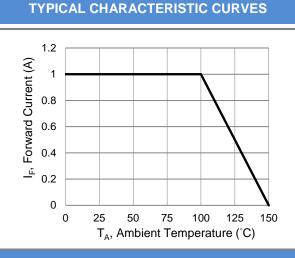
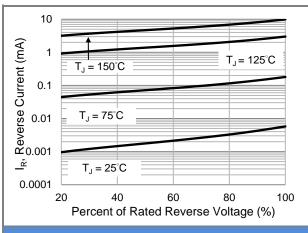
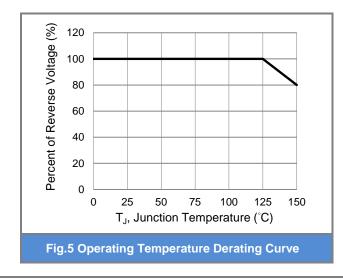


Fig.1 Forward Current Derating Curve



**Fig.3 Typical Reverse Characteristics** 



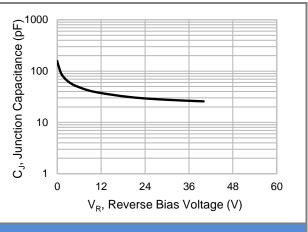
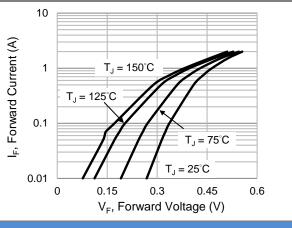


Fig.2 Typical Junction Capacitance



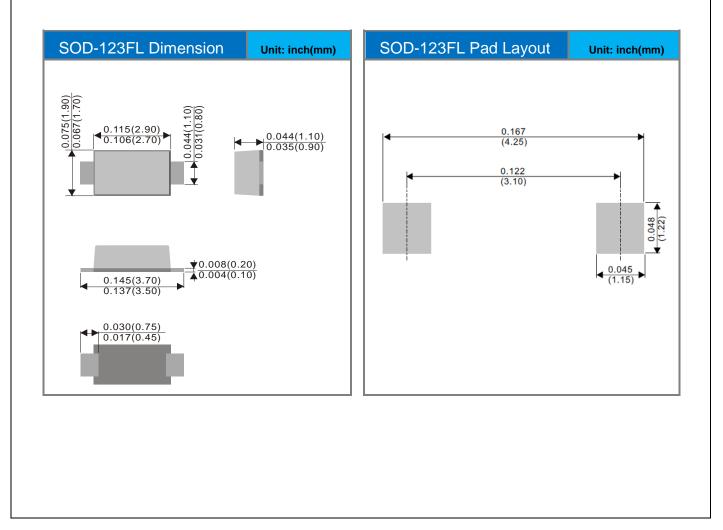
**Fig.4 Typical Forward Characteristics** 



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

Part No.	Package Type	Packing Type	Marking
SS1040FL-AU	SOD-123FL	3K / 7" Reel	G4

### Packaging Information & Mounting Pad Layout





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