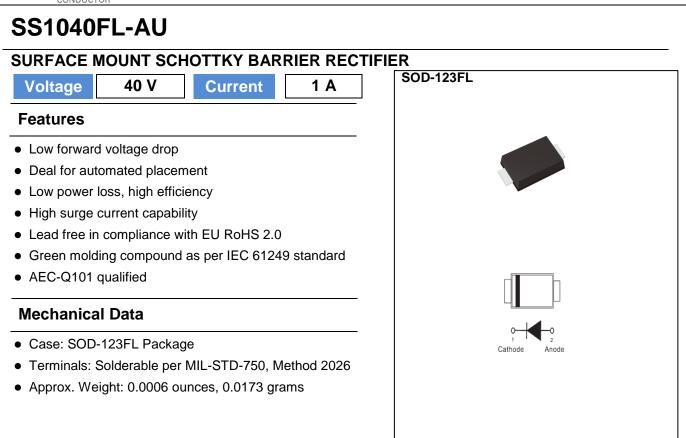
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



Maximum Ratings and Thermal Characteristics (T_A = 25^oC unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	40	V
Maximum Rms Voltage	V _{RMS}	28	V
Maximum Dc Blocking Voltage	V _{DC}	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 _{FSM}	40	А
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	60	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾ R _{θJC} ⁽²⁾	200 32	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Tstg	-55~150	°C



Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage V _F		I⊧ = 0.5 A, TJ = 25 °C	-	0.41	-	
	I _F = 1 A, T _J = 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 _R ⁽³⁾	V _R = 32 V, T _J = 25 °C	-	3.3	-		
	$V_R = 40 V, T_J = 25 °C$	-	-	30	uA	
	V _R = 40 V, T _J = 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 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect



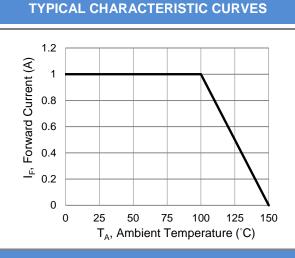


Fig.1 Forward Current Derating Curve

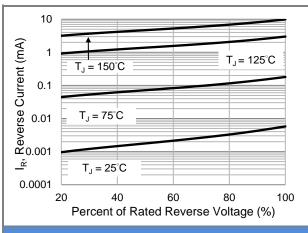
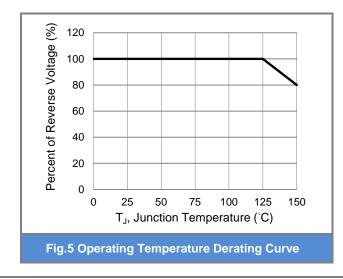


Fig.3 Typical Reverse Characteristics



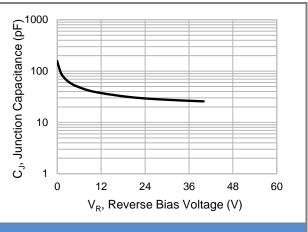


Fig.2 Typical Junction Capacitance

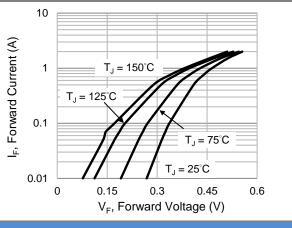


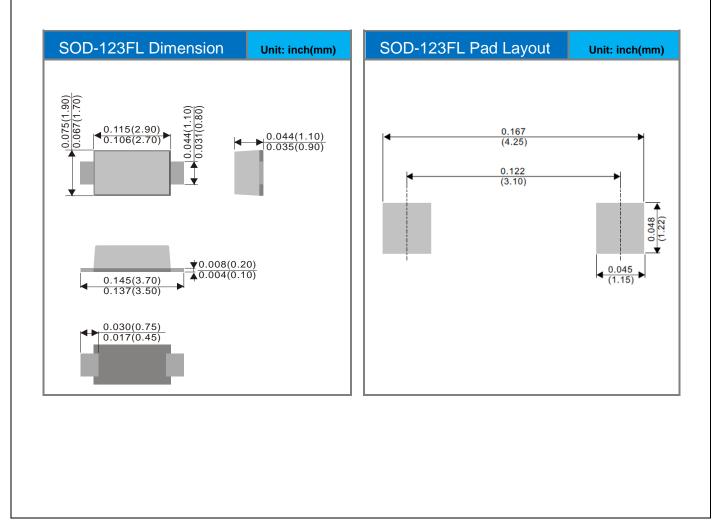
Fig.4 Typical Forward Characteristics



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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