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	SEMI CONDUCTOR

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### SK24L-AU

#### MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

#### SMB Voltage 40 V Current 2 A **Features** • Low forward voltage drop Deal for automated placement • Low power loss, high efficiency • High surge current capability • Green molding compound as per IEC 61249 standard • Lead free in compliance with EU RoHS 2.0 • AEC-Q101 qualified **Mechanical Data** • Case: JEDEC DO-214AA molded plastic • Polarity: Color Band denotes cathode end

- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0032 ounces, 0.092 grams

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2	А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	50	А
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	170	pF
Typical Thermal Resistance per diode	$\begin{array}{c} {R_{\theta JA}}^{(1)} \\ {R_{\theta JC}}^{(2)} \\ {R_{\theta JL}}^{(2)} \end{array}$	115 15 20	°C/W
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 25 °C	-	0.36	-	
		$I_F = 2 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.45	Ň
		$I_F = 0.5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.24	-	V
		$I_F = 2 \text{ A},  \text{T}_J = 125 ^{\circ}\text{C}$	-	0.35	-	
Reverse current	$I_{R}^{(3)}$	$V_{R} = 32 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	9.2	-	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	250	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	8.5	-	mA

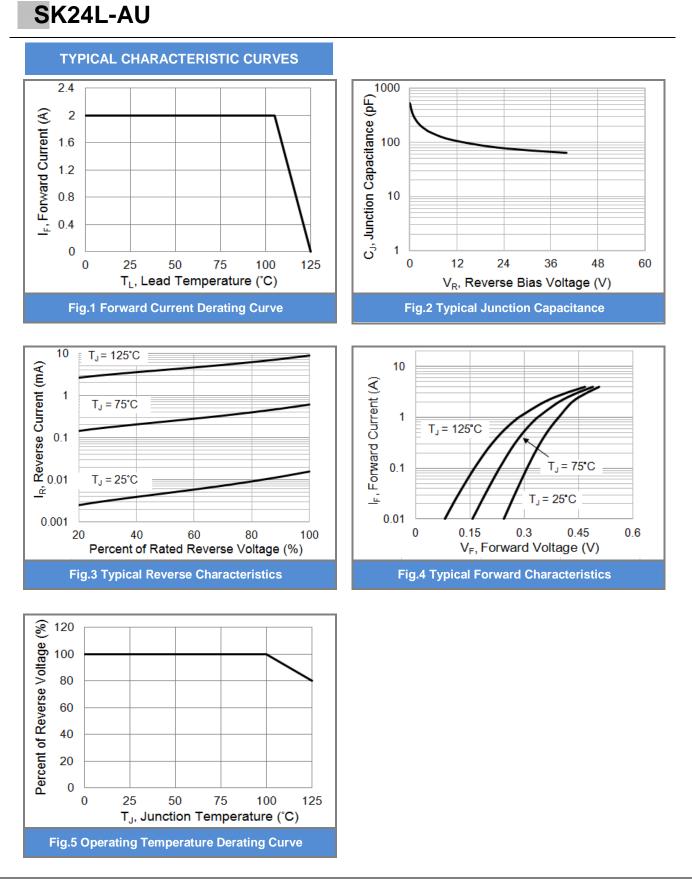
NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 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





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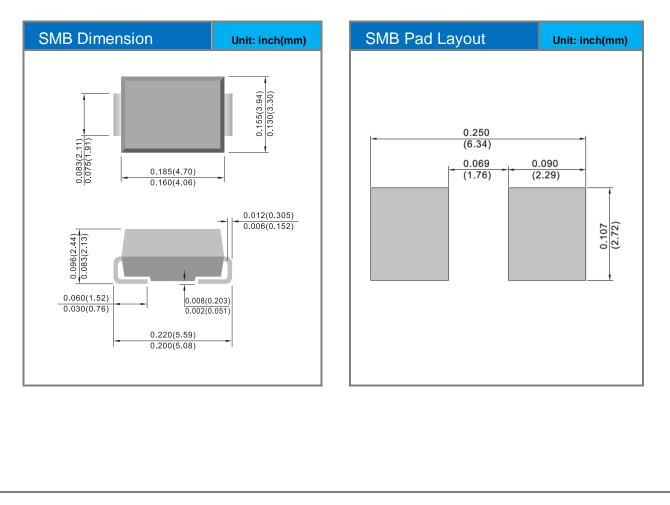


### SK24L-AU

#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SK24L-AU_R2_000A1	SMB	3000 pcs / 13" reel	SK24L	Halogen free

#### **Packaging Information & Mounting Pad Layout**





## SK24L-AU

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