

SK24-AU

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

• Approx. Weight: 0.0032 ounces, 0.092 grams

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: SMB molded plastic · Polarity: Color Band denotes cathode end • Terminals: Solderable per MIL-STD-750, Method 2026

Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4 V	CJ	100	pF
Typical Thermal Resistance per diode	${{R}_{{ heta}{JA}}^{(1)}}$ ${{R}_{{ heta}{JC}}}^{(2)}$ ${{R}_{{ heta}{JL}}}^{(2)}$	135 18 12	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C





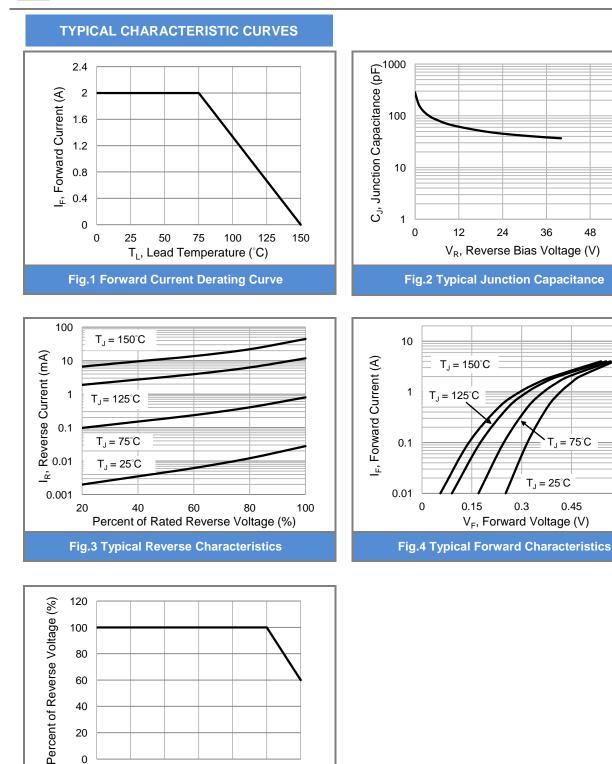
Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V _F	$I_F = 0.5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.39	-	V
		$I_F = 2 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	0.5	
		$I_F = 0.5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.26	-	
		$I_F = 2 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$	-	0.4	-	
Reverse current	Ι _R ⁽³⁾	$V_{R} = 32 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	12	-	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	90	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 100 ^{\circ}\text{C}$	-	-	20	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 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect





50

Fig.5 Operating Temperature Derating Curve

75

T_J, Junction Temperature (°C)

100

125

150

25

12

 $T_J = 150^{\circ}C$

0.15

T_J = 125°C

24

V_R, Reverse Bias Voltage (V)

36

48

T_J = 75°C

0.45

0.6

 $T_J = 25^{\circ}C$

0.3

V_F, Forward Voltage (V)

60

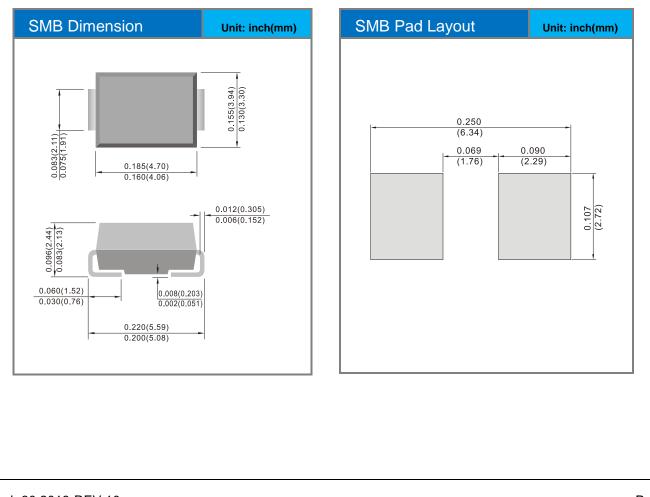




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SK24-AU_R1_000A1	SMB	800 pcs / 7" reel	SK24	Halogen free

Packaging Information & Mounting Pad Layout







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