

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent 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 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	IFSM	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4 V$	CJ	100	pF
Typical Thermal Resistance per diode	R <sub>θJA</sub> <sup>(1)</sup> R <sub>θJC</sub> <sup>(2)</sup> R <sub>θJL</sub> <sup>(2)</sup>	135 18 12	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C



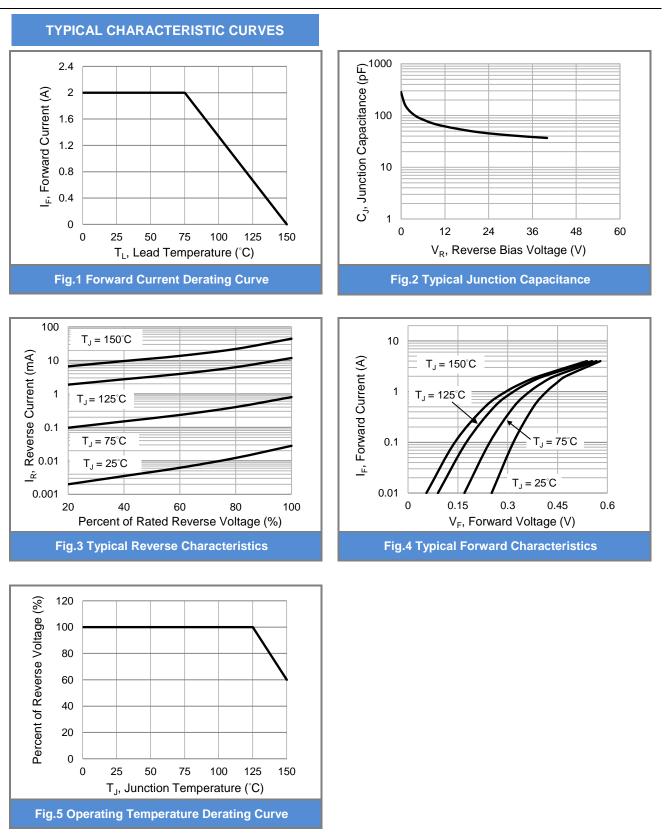
#### Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Instantaneous forward voltage	VF	$I_F = 0.5 \text{ A}, T_J = 25 \text{ °C}$	-	0.39	-	V	
		I <sub>F</sub> = 2 A, T <sub>J</sub> = 25 °C	-	-	0.5		
		I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 125 °C	-	0.26	-		
		I <sub>F</sub> = 2 A, T <sub>J</sub> = 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	-	12	-	uA	
		$V_R = 40 V, T_J = 25 °C$	-	-	90		
		V <sub>R</sub> = 40 V, T <sub>J</sub> = 100 °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 cm<sup>2</sup> copper pad area
- 3. Short duration pulse test used to minimize self-heating effect



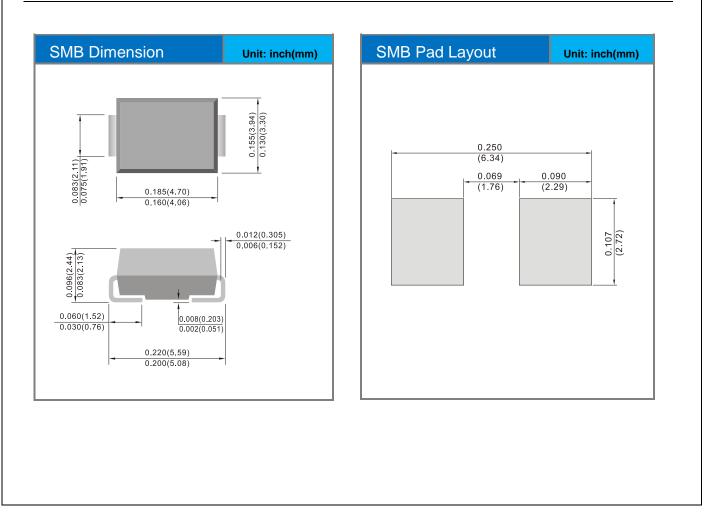




#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking	
SK24-AU	SMB	800 pcs / 7" reel	SK24	

### Packaging Information & Mounting Pad Layout





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