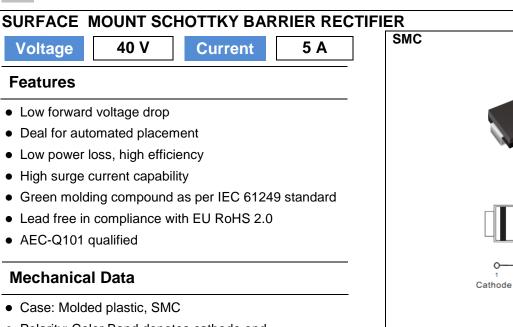
#### 

Anode

### SK54-AU



- Polarity: Color Band denotes cathode end
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0082 ounces, 0.2325 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>	5	А	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	100	А	
Typical Junction Capacitance Measured at 1 MHz And Applied V <sub>R</sub> = 4V	CJ	240	pF	
Typical Thermal Resistance per diode	${R_{{ extsf{ heta}JA}}^{(1)}}\ {R_{{ heta}JC}}^{(2)}\ {R_{{ heta}JL}}^{(1)}$	55 15 17	°C/W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C	





## SK54-AU

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

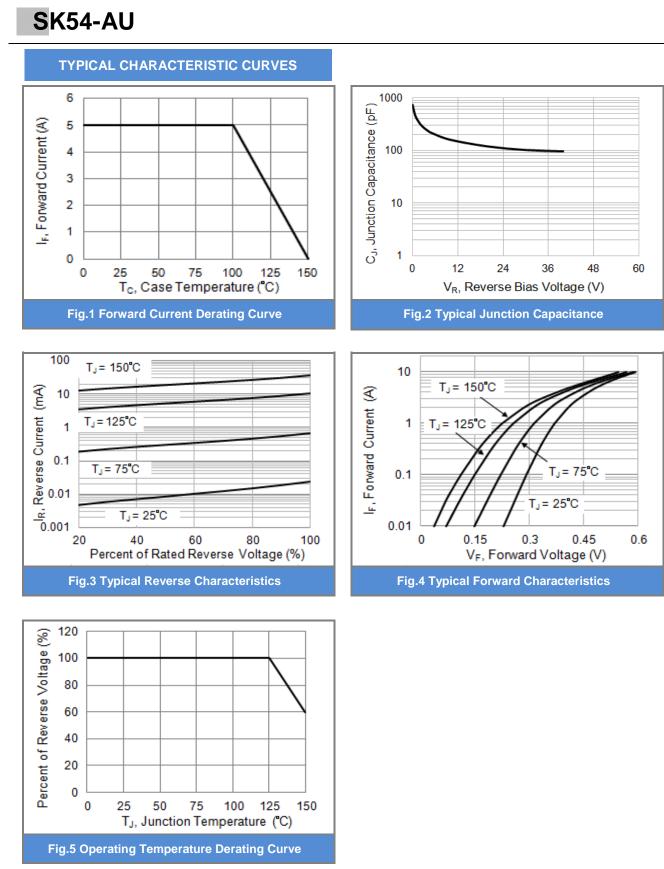
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.37	-	V
		$I_F = 2 \text{ A},  \text{T}_J = 25 ^{\circ}\text{C}$	-	0.41	-	
		$I_F = 5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.55	
		$I_F = 1 \text{ A},  \text{T}_J = 125 ^{\circ}\text{C}$	-	0.25	-	
		$I_F = 2 \text{ A},  \text{T}_J = 125 ^{\circ}\text{C}$	-	0.31	-	
		$I_F = 5 \text{ A},  \text{T}_J = 125 ^{\circ}\text{C}$	-	0.43	-	
Reverse current	I <sub>R</sub> <sup>(3)</sup>	$V_{R} = 32 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	15	-	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	200	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 100 ^{\circ}\text{C}$	-	-	20	mA

NOTES:

- 1. Mounted on a PCB, single-sided copper, with 14 mm<sup>2</sup> (0.013mm thick) copper pad area
- 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



# 4



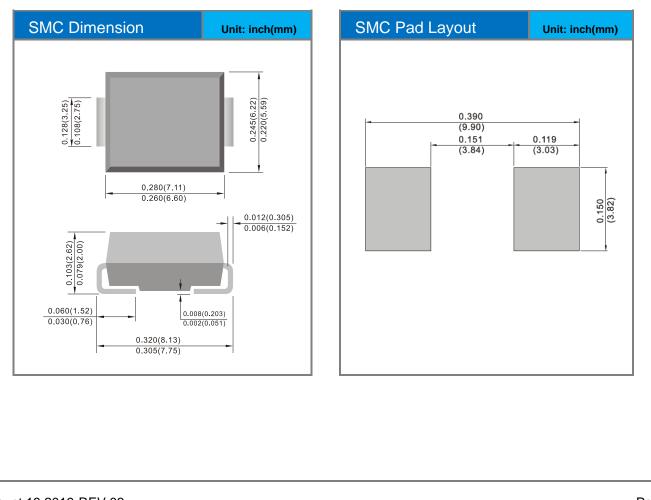




# Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SK54-AU_R1_000A1	SMC	800 pcs / 7" reel	SK54	Halogen free

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







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