

• Approx. Weight: 0.0082 ounces, 0.2325 grams

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)}	5	А	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	Ifsm	100	А	
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	240	pF	
Typical Thermal Resistance per diode	R _{θJA} ⁽¹⁾ R _{θJC} ⁽²⁾	55 15	°C/W	
	Rejl ⁽¹⁾	17		
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	Tstg	-55~150	٥C	



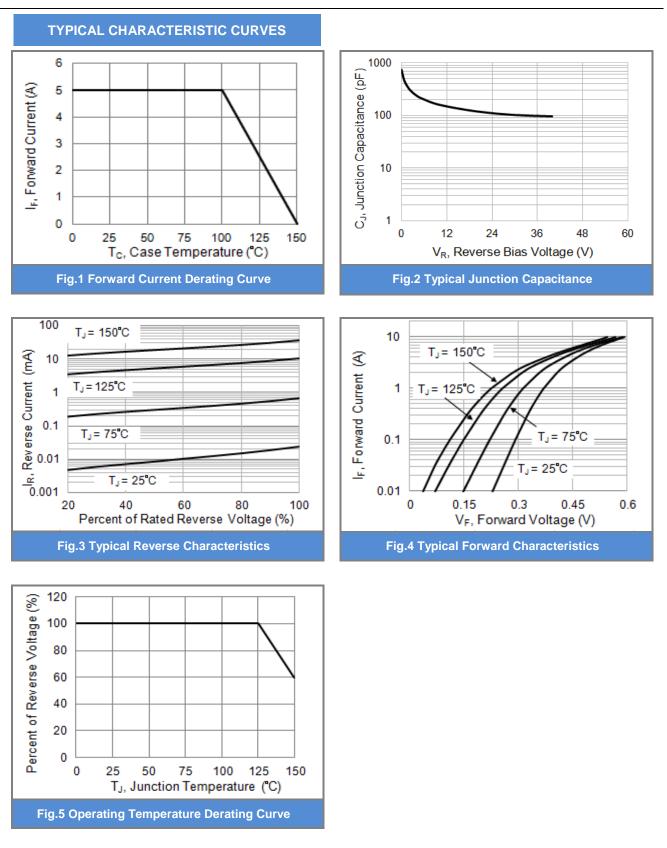
Electrical Characteristics (T_A = 25^oC unless otherwise noted)

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

NOTES:

- 1. Mounted on a PCB, single-sided copper, with 14 mm² (0.013mm thick) copper pad area
- 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



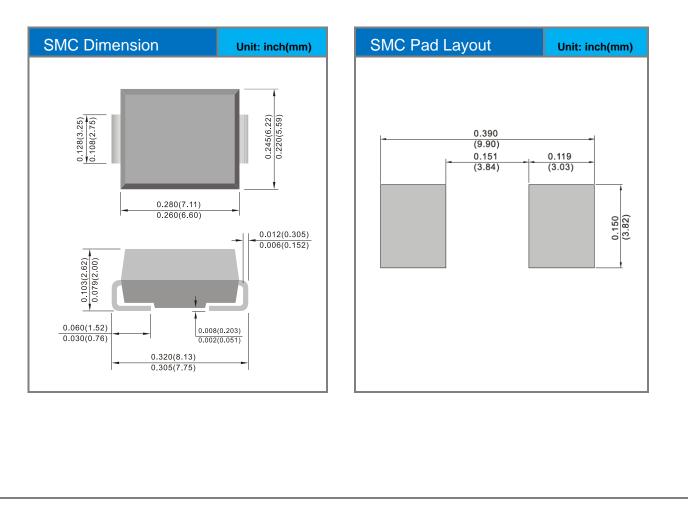




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
SK54-AU	SMC	800 pcs / 7" reel	SK54	

Packaging Information & Mounting Pad Layout





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