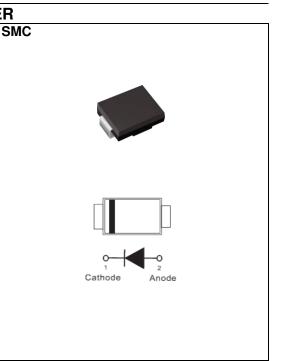


#### Features

- 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-214AB molded plastic
- 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>	60	V	
Maximum RMS Voltage	V <sub>RMS</sub>	42	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	V	
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3	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 $V_R = 4V$	CJ	125	pF	
Typical Thermal Resistance per diode	$\begin{array}{c} {R_{\theta JA}}^{(1)} \\ {R_{\theta JC}}^{(2)} \\ {R_{\theta JL}}^{(1)} \end{array}$	75 15 20	°C/W	
Operating Junction Temperature Range	TJ	-55 to +150	°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C	



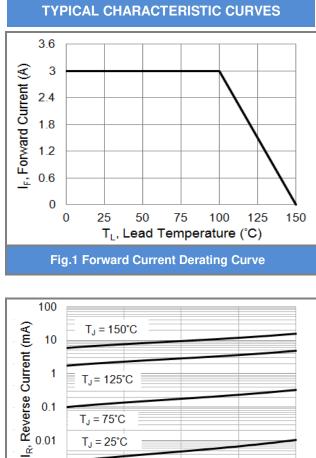
### **Electrical Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V <sub>F</sub>	$I_F = 1 \text{ A},  \text{T}_J = 25 \ ^{\circ}\text{C}$	-	0.44	-	V
		$I_F = 3 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.75	
		$I_F = 1 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.37	-	
		$I_F = 3 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.55	-	
Reverse current	I <sub>R</sub> <sup>(3)</sup>	$V_{\rm R} = 48 \text{ V}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	6.8	-	uA
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	100	
		$V_{R} = 60 \text{ V},  \text{T}_{J} = 100 ^{\circ}\text{C}$	-	-	20	mA

NOTES:

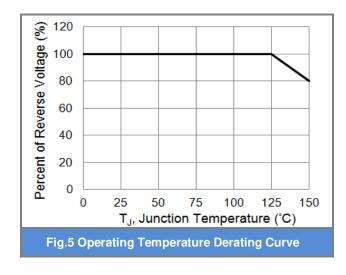
- 1. Mounted on a PCB, single-sided copper, with 8 mm<sup>2</sup> (0.013mm thick) copper pad area
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm<sup>2</sup> copper pad area
- 3. Short duration pulse test used to minimize self-heating effect

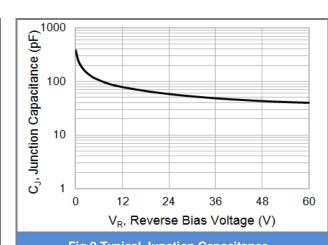




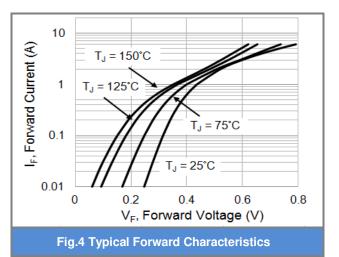
T<sub>J</sub> = 75°C T<sub>J</sub> = 25°C 0.001 20 40 60 80 100 Percent of Rated Reverse Voltage (%)

**Fig.3 Typical Reverse Characteristics** 









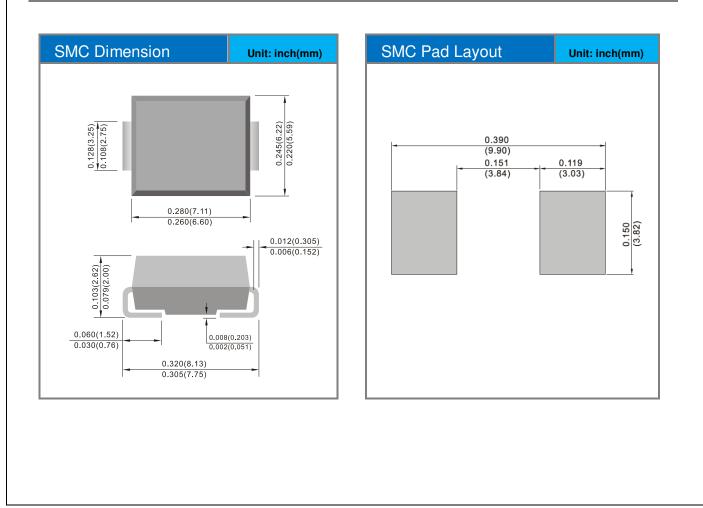




#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SK36-AU_R2_000A1	SMC	3000 pcs / 13" reel	SK36	Halogen free

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







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