PΛN	ĴΪΤ
	SEMI CONDUCTOR



Current

3 A

Features

Voltage

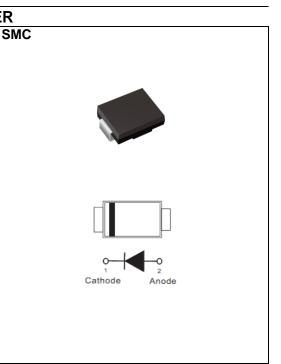
- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Green molding compound as per IEC 61249 standard
- Lead free in compliance with EU RoHS 2.0

100 V

• 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 _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3	А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	80	А
Maximun Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	120	pF
Typical Thermal Resistance per diode	${{{R}_{{ extsf{ heta}JA}}^{\left(1 ight)}}$ ${{R}_{{ heta}JC}}^{\left(2 ight)}$ ${{R}_{{ heta}JL}}^{\left(2 ight)}$	125 15 15	°C/W
Operating Junction Temperature Range	TJ	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C



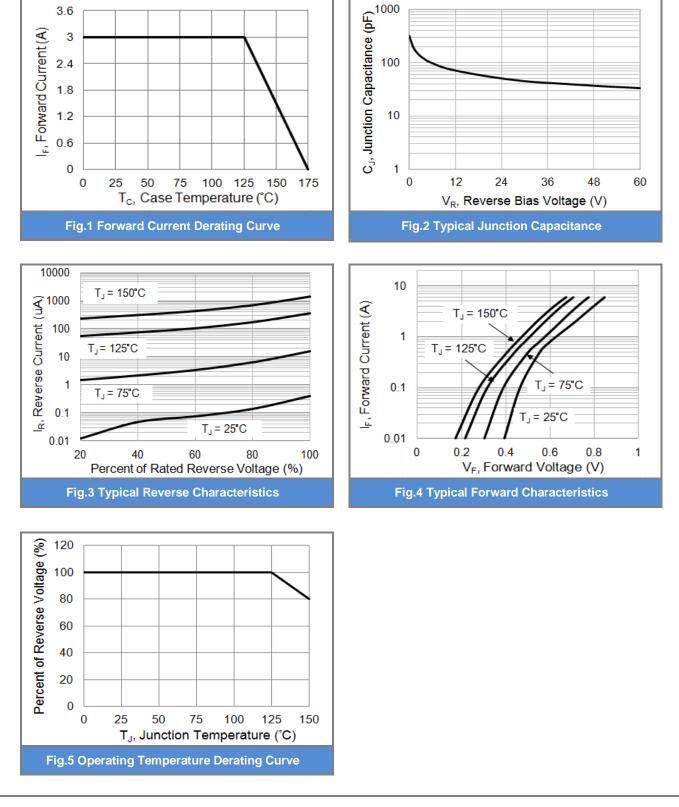
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V _F	I _F = 1 A, T _J = 25 °C	-	0.63	-	
		I _F = 3 A, T _J = 25 °C	-	-	0.8	
		$I_F = 1 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.51	-	V
		$I_F = 3 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.62	-	
Reverse current	Ι _R ⁽³⁾	$V_{R} = 80 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.14	-	uA
		$V_{R} = 100 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	
		$V_R = 100 \text{ V}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	0.4	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, 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





TYPICAL CHARACTERISTIC CURVES



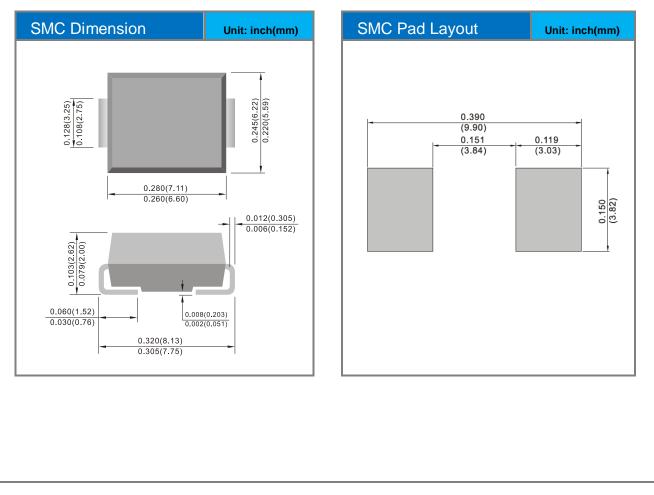




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MB310-AU_R2_000A1	SMC	3000 pcs / 13" reel	MB310	Halogen free

Packaging Information & Mounting Pad Layout





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