| PΛN | ĴΪΤ |
|-----|-------------------|
| | SEMI CONDUCTOR |



Current

3 A

Features

Voltage

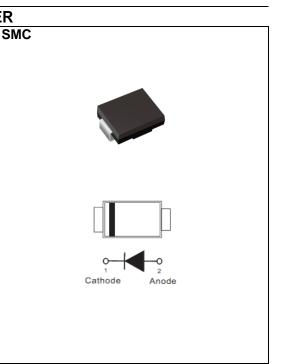
- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Green molding compound as per IEC 61249 standard
- Lead free in compliance with EU RoHS 2.0

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 |



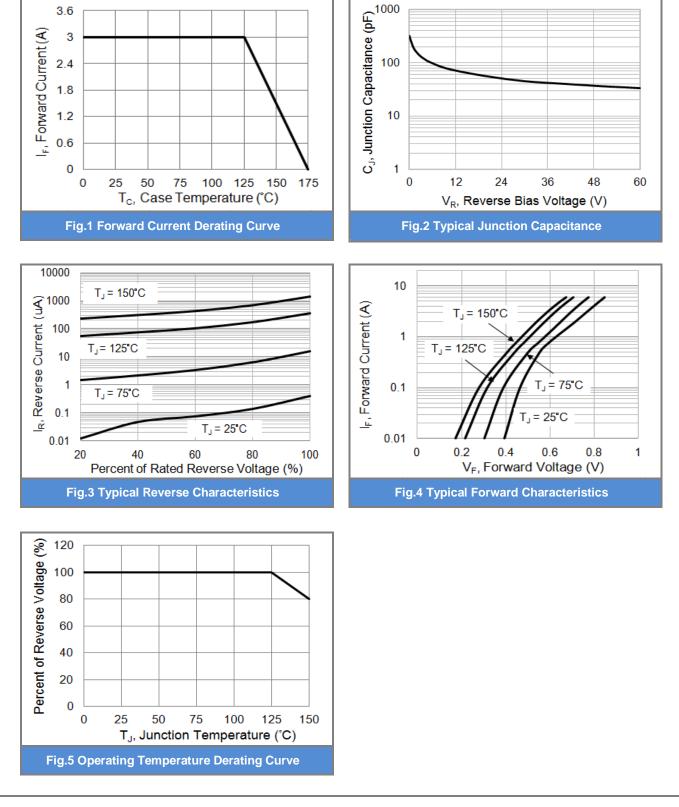
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

| 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



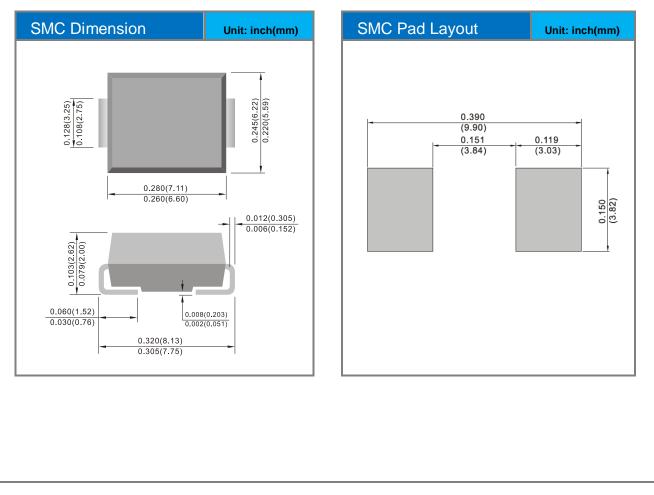




Part No Packing Code Version

| 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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