



# BR210-AU

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**Voltage**

**100 V**

**Current**

**2 A**

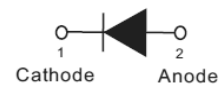
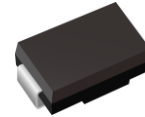
### Features

- 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-214AC molded plastic
- Polarity: Color Band denotes cathode end
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0023 ounces, 0.0679 grams

SMA



### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2	A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied V <sub>R</sub> = 4V	C <sub>J</sub>	75	pF
Typical Thermal Resistance per diode	R <sub>θJA</sub> <sup>(1)</sup>	150	°C/W
	R <sub>θJC</sub> <sup>(2)</sup>	15	
	R <sub>θJL</sub> <sup>(2)</sup>	25	
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +175	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +175	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	$V_F$	$I_F = 0.5\text{ A}, T_J = 25^\circ\text{C}$	-	0.6	-	V
		$I_F = 2\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.8	
		$I_F = 0.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.49	-	
		$I_F = 2\text{ A}, T_J = 125^\circ\text{C}$	-	0.62	-	
Reverse current	$I_R^{(3)}$	$V_R = 80\text{ V}, T_J = 25^\circ\text{C}$	-	0.1	-	uA
		$V_R = 100\text{ V}, T_J = 25^\circ\text{C}$	-	-	50	mA
		$V_R = 100\text{ V}, T_J = 100^\circ\text{C}$	-	-	20	

**NOTES:**

1. Mounted on a FR4 PCB, single-sided copper, mini pad
2. Mounted on a FR4 PCB, single-sided copper, with  $100\text{ cm}^2$  copper pad area
3. Short duration pulse test used to minimize self-heating effect



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## TYPICAL CHARACTERISTIC CURVES

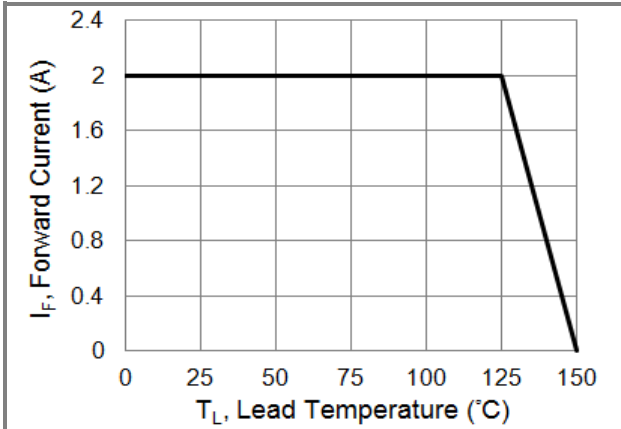


Fig.1 Forward Current Derating Curve

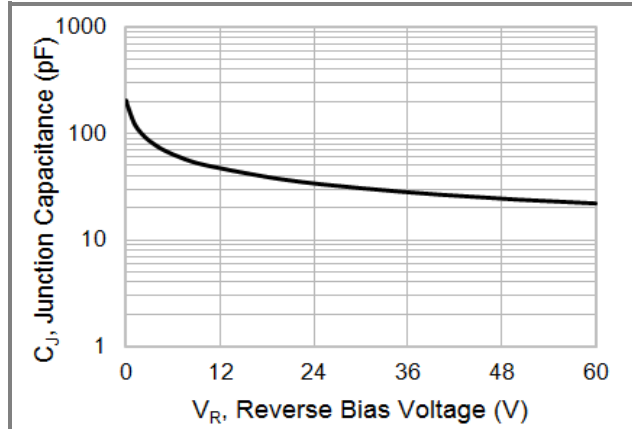


Fig.2 Typical Junction Capacitance

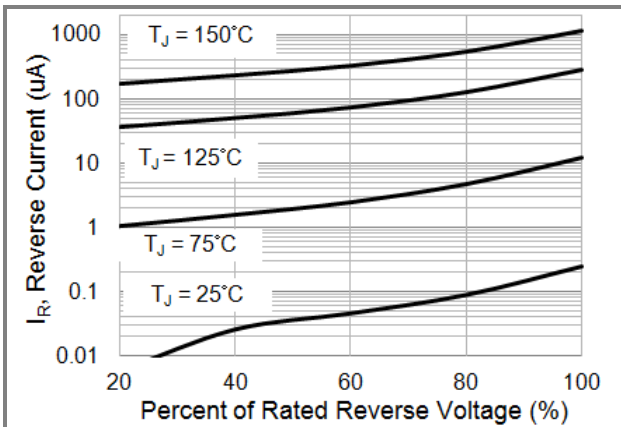


Fig.3 Typical Reverse Characteristics

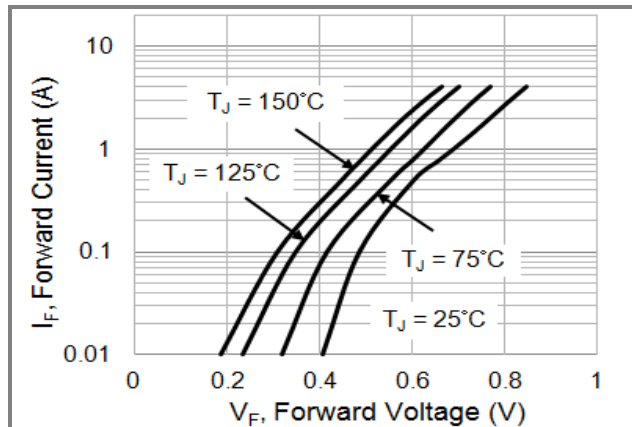


Fig.4 Typical Forward Characteristics

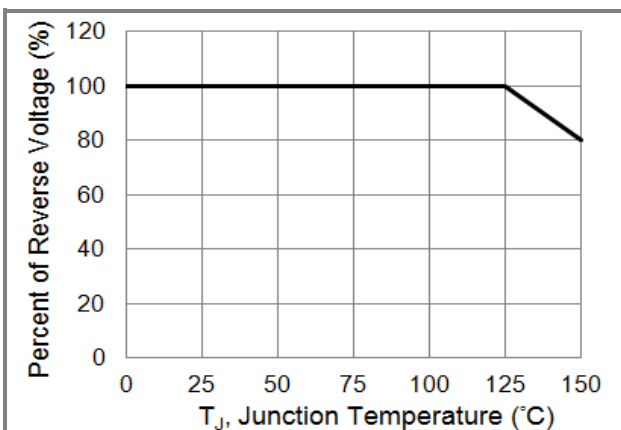


Fig.5 Operating Temperature Derating Curve

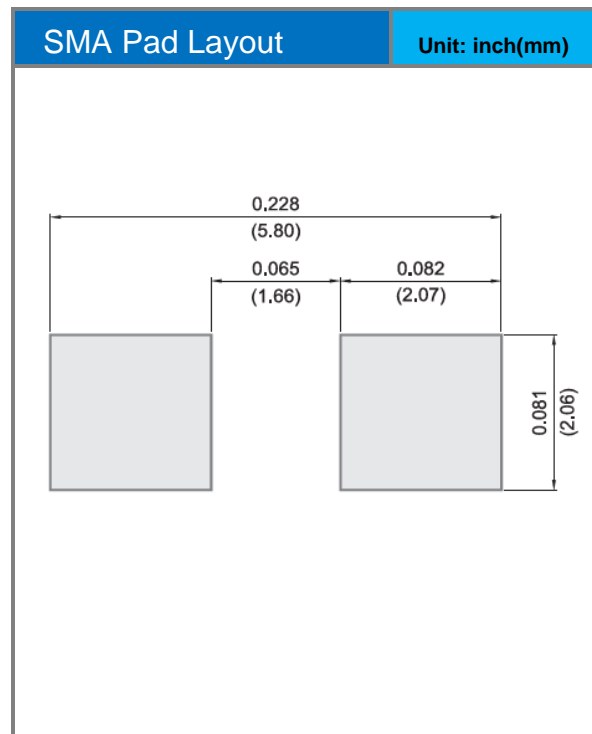
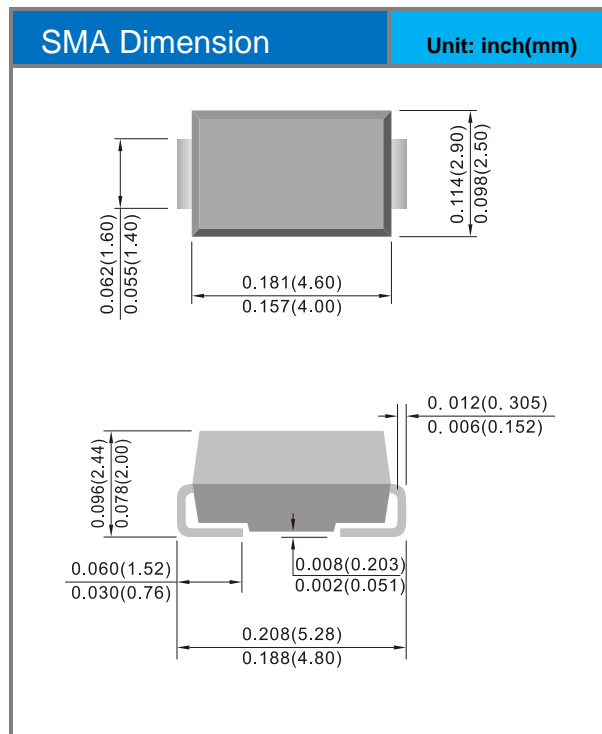


# BR210-AU

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BR210-AU_R2_000A1	SMA	7500 pcs / 13" reel	BR210	Halogen free

## Packaging Information & Mounting Pad Layout





## BR210-AU

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