

BR210

Surface Mount Schottky Barrier Rectifier

Voltage

100 V

Current

2 A

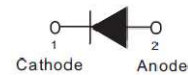
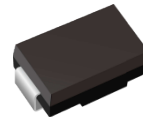
Features

- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SMA Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0024 ounces, 0.0679 grams

SMA



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive 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 Current	I _{F(AV)}	2	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4 V	C _J	98	pF
Typical Thermal Resistance (Note 1)	R _{θJA}	150	°C/W
(Note 2)	R _{θJC}	8	
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 2\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.8	V
		$I_F = 2\text{ A}, T_J = 125^\circ\text{C}$	-	0.59	-	
Reverse Current ^(Note 3)	I_R	$V_R = 100\text{ V}, T_J = 25^\circ\text{C}$	-	-	50	uA
		$V_R = 100\text{ V}, T_J = 100^\circ\text{C}$	-	15	-	

NOTES :

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



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TYPICAL CHARACTERISTIC CURVES

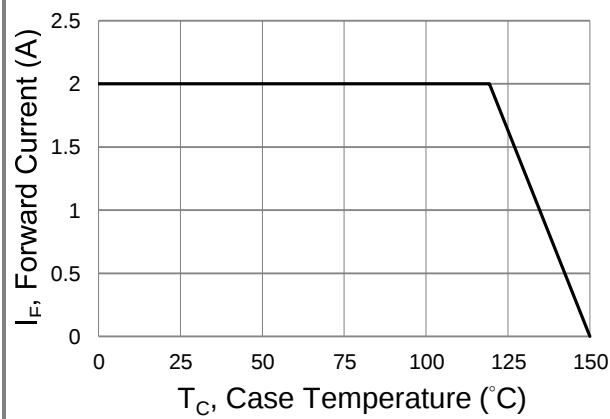


Fig.1 Forward Current Derating Curve

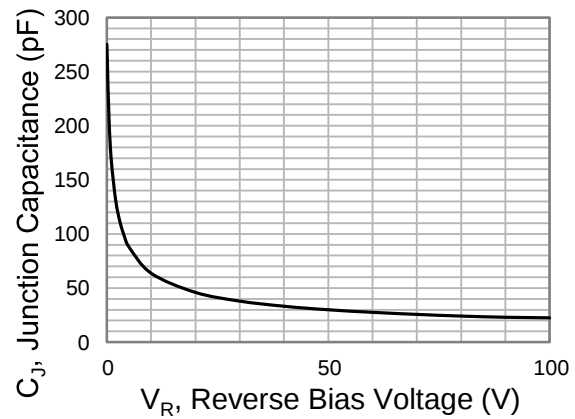


Fig.2 Typical Junction Capacitance

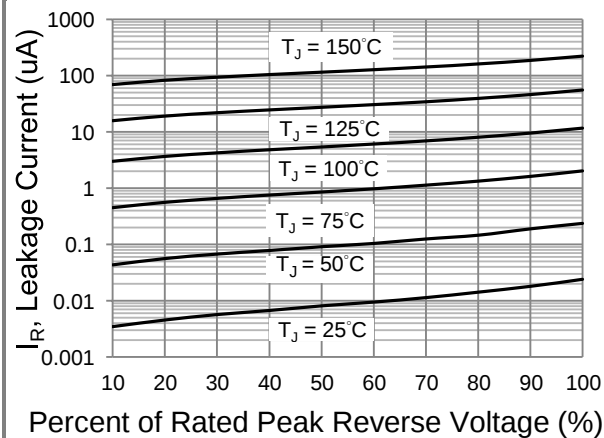


Fig.3 Typical Reverse Characteristics

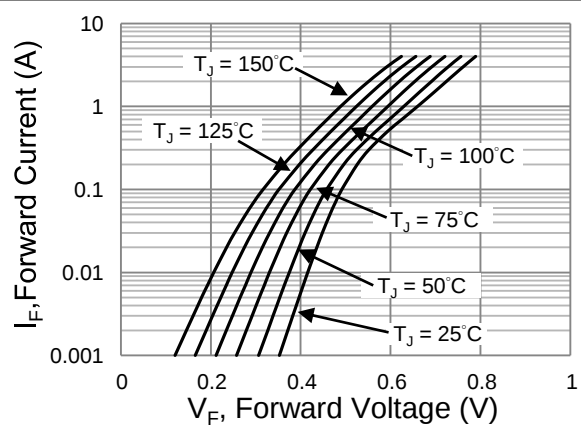


Fig.4 Typical Forward Characteristics

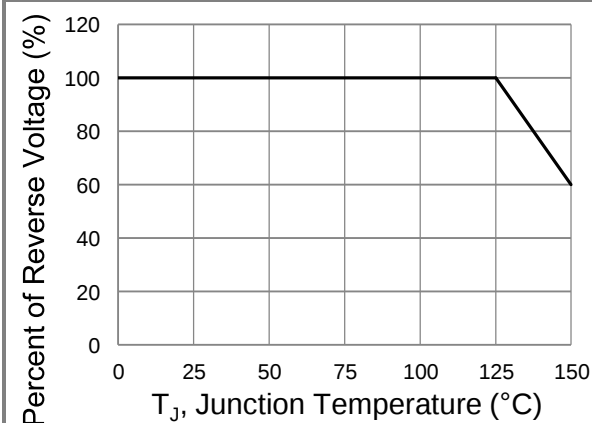
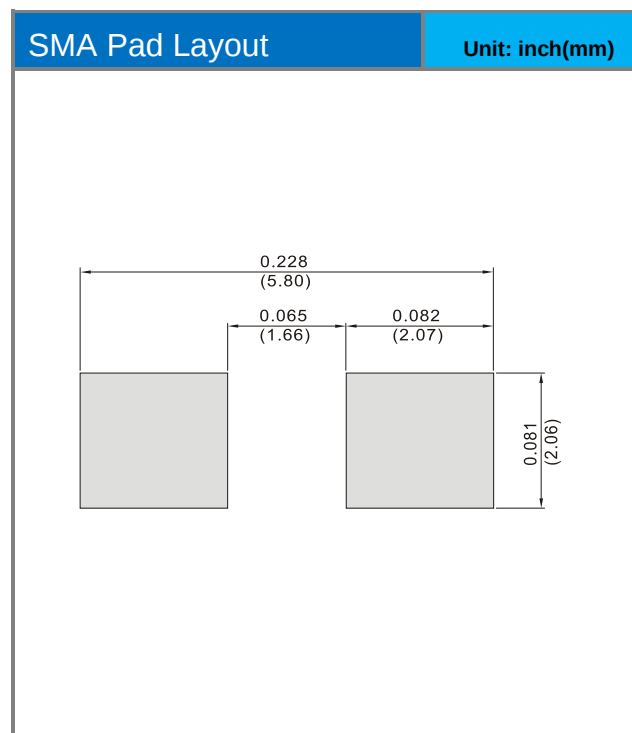
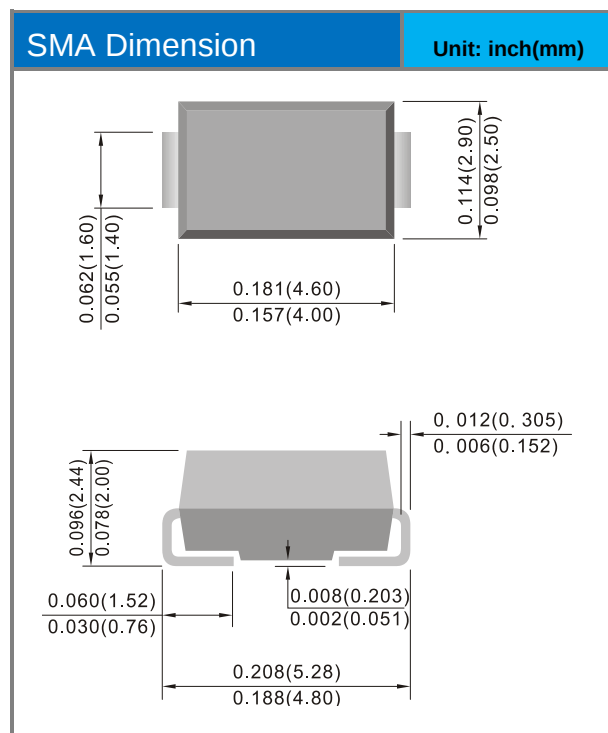


Fig.5 Operating Temperature Derating Curve

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
BR210_R1_00101	SMA	1.8K pcs / 7" reel	BR210	Halogen free
BR210_R2_00101	SMA	7.5K pcs / 13" reel	BR210	Halogen free

Packaging Information & Mounting Pad Layout





BR210

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