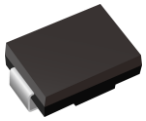
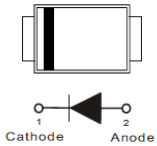
BR36-AU

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Voltage	60 V	Current	3 A

SMB





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-214AA molded plastic
- Polarity: Color Band denotes cathode end
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0032 ounces, 0.092 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25^oC$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I_{FSM}	80	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	C_J	125	pF
Typical Thermal Resistance per diode	$R_{\theta JA}$ (1) $R_{\theta JC}$ (2) $R_{\theta JL}$ (2)	135 18 23	$^oC/W$
Operating Junction Temperature Range	T_J	-65 to +175	^oC
Storage Temperature Range	T_{STG}	-65 to +175	^oC

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Electrical Characteristics (T_A = 25°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	-	0.47	-	V
		I_F = 3 A, T_J = 25°C	-	-	0.74	
		I_F = 1 A, T_J = 125°C	-	0.4	-	
		I_F = 3 A, T_J = 125°C	-	0.57	-	
Reverse current	I_R (3)	V_R = 48 V, T_J = 25°C	-	1.5	-	uA
		V_R = 60 V, T_J = 25°C	-	-	50	
		V_R = 60 V, T_J = 125°C	-	-	20	mA

NOTES:

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

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TYPICAL CHARACTERISTIC CURVES

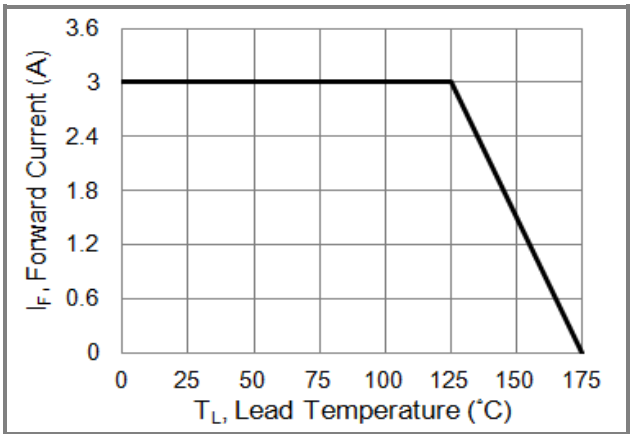

Fig.1 Forward Current Derating Curve

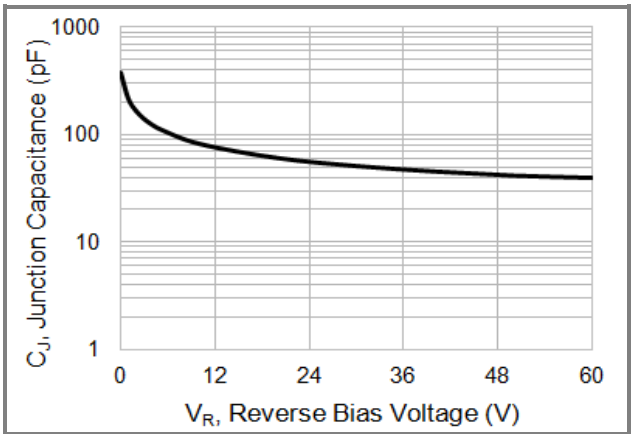

Fig.2 Typical Junction Capacitance

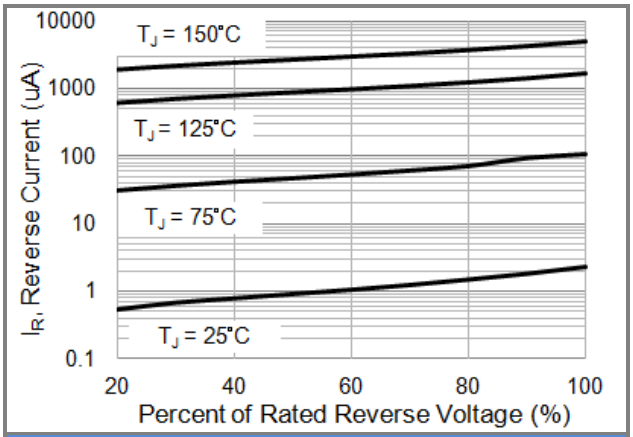

Fig.3 Typical Reverse Characteristics

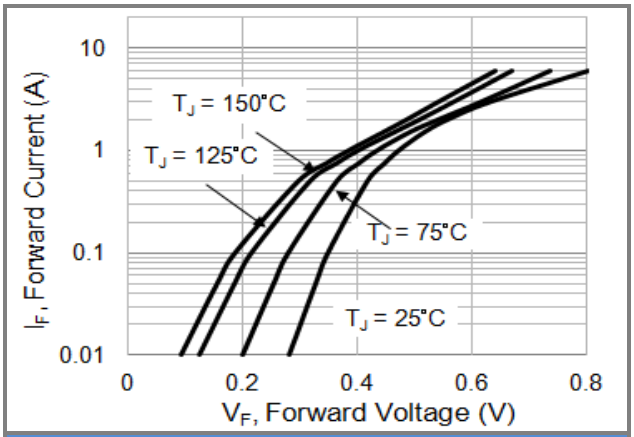

Fig.4 Typical Forward Characteristics

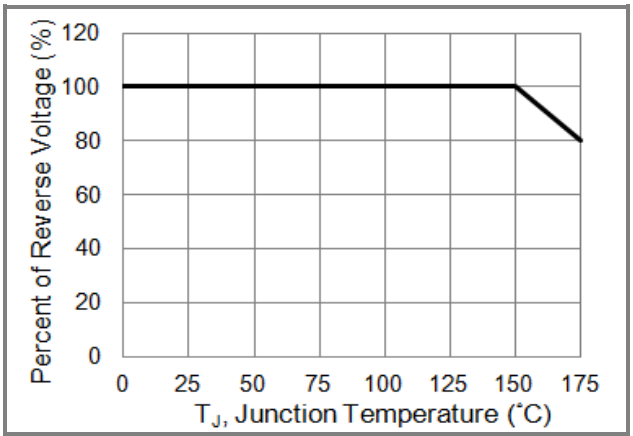

Fig.5 Operating Temperature Derating Curve

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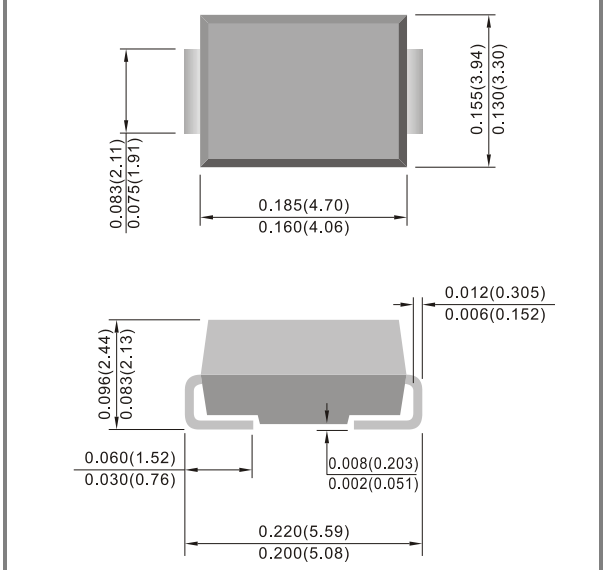
Part No Packing Code Version

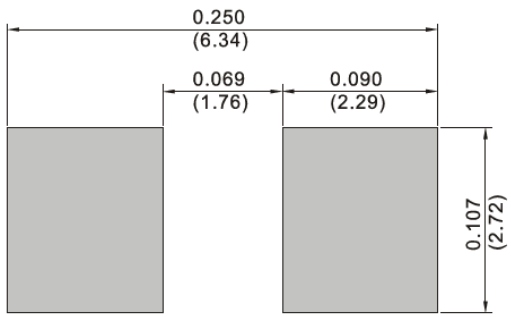
Part No Packing Code	Package Type	Packing Type	Marking	Version
BR36-AU_R1_000A1	SMB	800 pcs / 7” reel	BR36	Halogen free

Packaging Information & Mounting Pad Layout

SMB Dimension — Unit: inch(mm)



SMB Pad Layout — Unit: inch(mm)



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