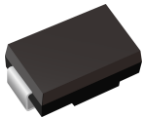
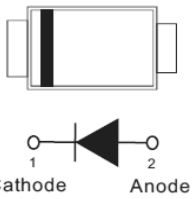
BX34-AU

Surface Mount Schottky Barrier Rectifier

Voltage	40 V	Current	3 A

SMA





Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Green molding compound as per IEC 61249 standard
- Lead free in compliance with EU RoHS 2.0

Mechanical Data

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

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

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	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) $R_{\theta JL}$ (1)	75 20 20	°C/W
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage	V_F	I_F = 1 A, T_J = 25 °C	-	0.44	-	V
		I_F = 3 A, T_J = 25 °C	-	-	0.7	
		I_F = 1 A, T_J = 125 °C	-	0.33	-	
		I_F = 3 A, T_J = 125 °C	-	0.47	-	
Reverse current	I_R (3)	V_R = 32 V, T_J = 25 °C	-	1.5	-	uA
		V_R = 40 V, T_J = 25 °C	-	-	50	
		V_R = 40 V, T_J = 100 °C	-	-	5	mA

NOTES :

1. Mounted on a PCB, single-sided copper, with 8 mm^2 (0.013mm thick) copper pad area.
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

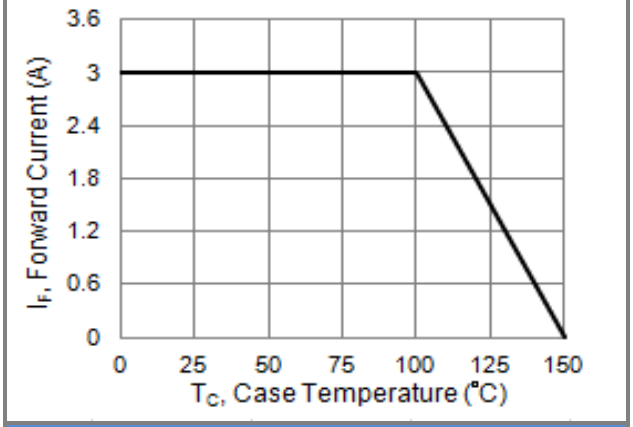


Fig.1 Forward Current Derating Curve

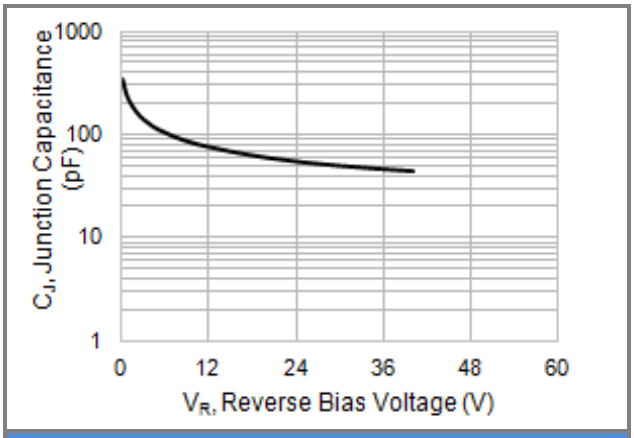


Fig.2 Typical Junction Capacitance

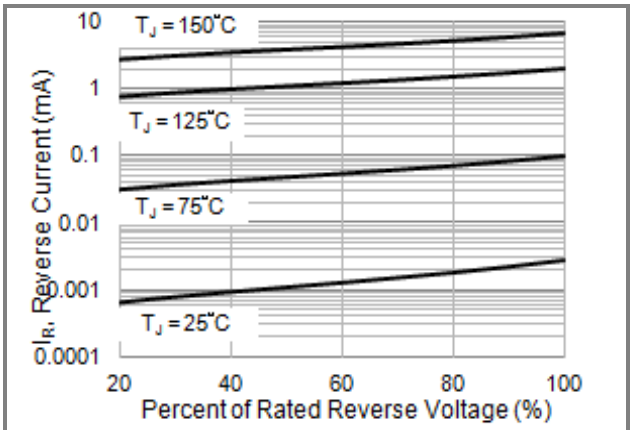


Fig.3 Typical Reverse Characteristics

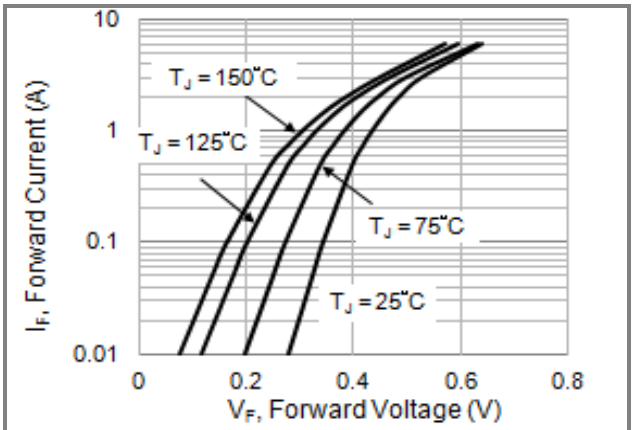


Fig.4 Typical Forward Characteristics

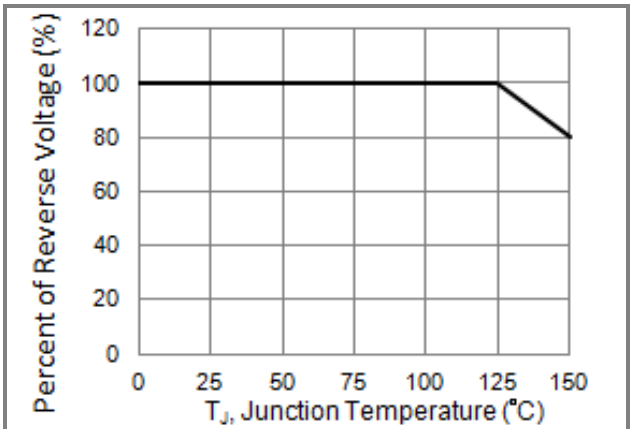


Fig.5 Operating Temperature Derating Curve

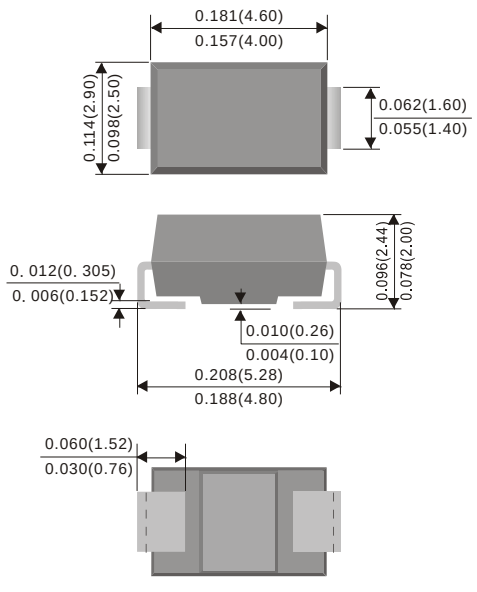
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Product and Packing Information

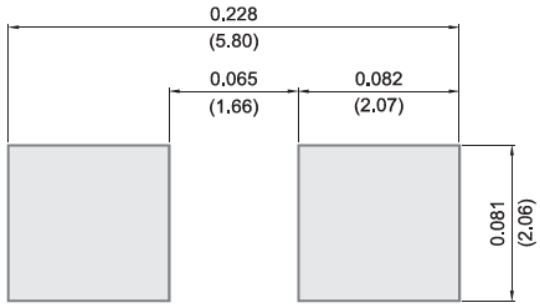
Part No.	Package Type	Packing Type	Marking
BX34-AU	SMA	7500 pcs / 13” reel	BX34

Packaging Information & Mounting Pad Layout

SMA Dimension — Unit: inch(mm)



SMA Pad Layout — Unit: inch(mm)



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