BX34-AU

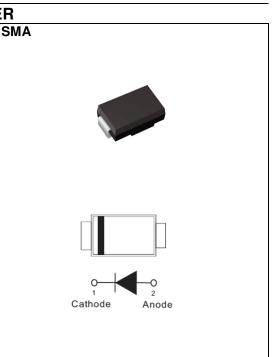


Features

- 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: 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	UNITS
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	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	80	А
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	125	pF
Typical Thermal Resistance per diode	${{{R}_{{ extsf{ heta}JA}}^{\left(1 ight)}}$ ${{R}_{{ heta}JC}}^{\left(2 ight)}$ ${{R}_{{ heta}JL}}^{\left(1 ight)}$	75 20 20	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C



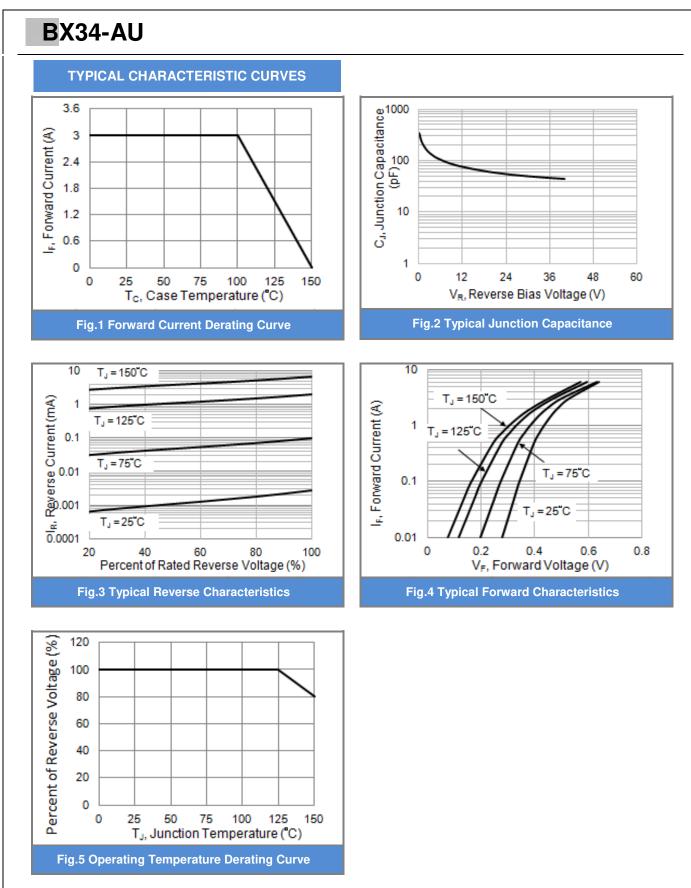
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Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V _F	$I_F = 1 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$	-	0.44	-	V
		$I_F = 3 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.7	
		$I_F = 1 \text{ A}, T_J = 125 \ ^{\circ}\text{C}$	-	0.33	-	
		$I_F = 3 \text{ A}, T_J = 125 \ ^{\circ}\text{C}$	-	0.47	-	
Reverse current	Ι _R ⁽³⁾	$V_{\rm R} = 32 \text{ V}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	1.5	-	uA
		$V_{R} = 40 V, T_{J} = 25 °C$	-	-	50	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 100 ^{\circ}\text{C}$	-	-	5	mA

NOTES:

- 1. Mounted on a PCB, single-sided copper, with 8 mm² (0.013mm thick) copper pad area
- 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





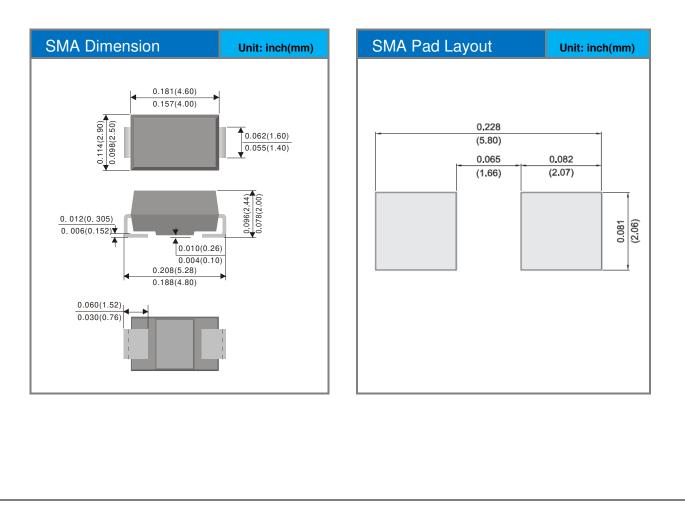


BX34-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BX34-AU_R2_000A1	SMA	7500 pcs / 13" reel	BX34	Halogen free

Packaging Information & Mounting Pad Layout







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