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	SEMI CONDUCTOR

MB36-AU SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER SMC Voltage 60 V Current 3 A Features • Low forward voltage drop • Deal for automated placement • 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 • AEC-Q101 qualified **Mechanical Data** • Case: SMC Package · Polarity: Color Band denotes cathode end Cathode • Terminals: Solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.0082 ounces, 0.2325 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ 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	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	80	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4 V$	CJ	125	pF
Typical Thermal Resistance	$\begin{array}{c} {R_{\thetaJA}}^{(1)} \\ {R_{\thetaJC}}^{(2)} \\ {R_{\thetaJL}}^{(2)} \end{array}$	125 15 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



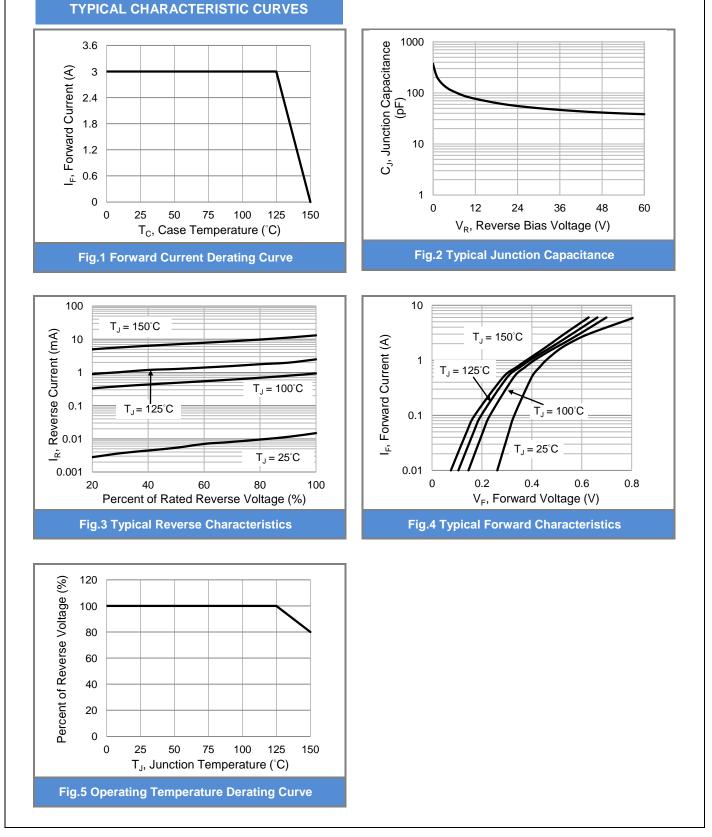


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V _F	$I_F = 1 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$	-	0.46	-	
		$I_F = 3 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	0.74	V
		$I_F = 1 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$	-	0.39	-	
		$I_F = 3 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$	-	0.56	-	
Reverse current	I _R ⁽³⁾	$V_{R} = 48 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	10	-	uA
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	2.5	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad
- 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



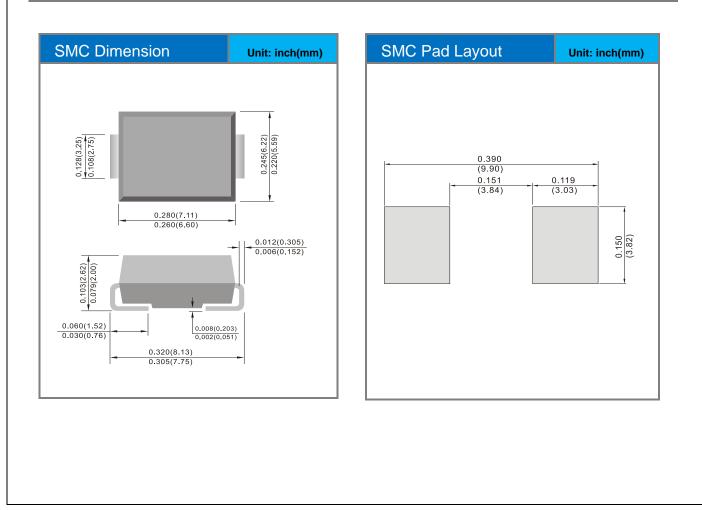




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MB36-AU_R2_000A1	SMC	3K / 13" reel	MB36	Halogen free

Packaging Information & Mounting Pad Layout





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