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PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum Rms Voltage	V _{RMS}	21	V
Maximum Dc Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Current	I _{F(AV)}	0.2	А
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	0.6	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{R} = 4 V$	CJ	4	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	430	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

• Case: DFN 2L Package

• Terminals: Solderable per MIL-STD-750, Method 2026

Current

• Polarity: Color band denotes cathode end

• Lead free in compliance with EU RoHS 2.0

30 V

- Approx. Weight: 0.00004 ounces, 0.0011 grams
- **Mechanical Data**

• Low forward voltage drop • Deal for automated placement • Low power loss, high efficiency • High surge current capability

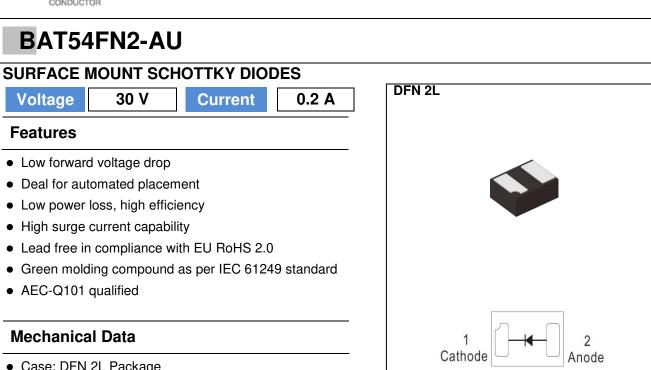
• AEC-Q101 qualified

CONDUCTOR **BAT54FN2-AU**

Voltage

Features

PAN





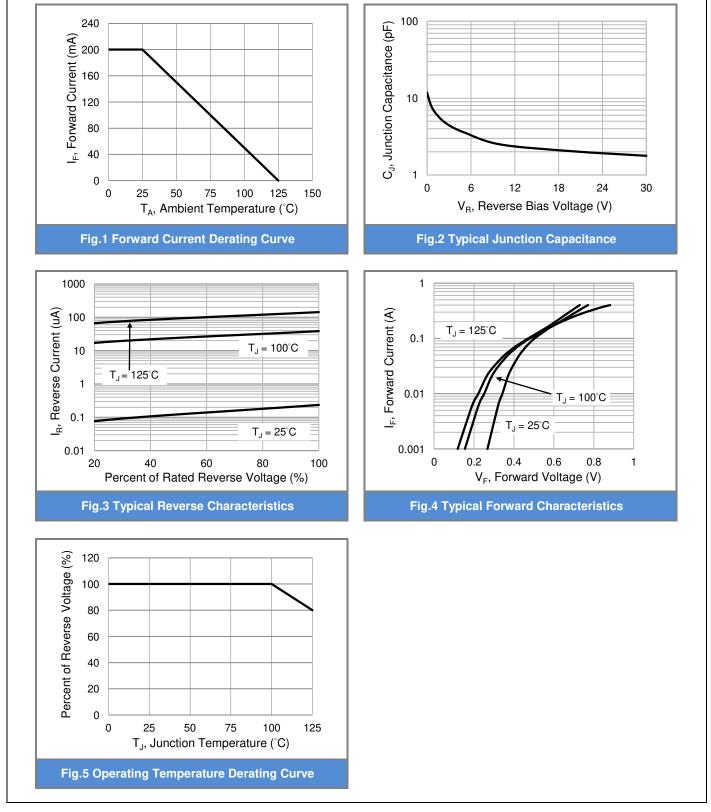


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 1 \text{ mA}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.32	v
		$I_F = 100 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.6	
		$I_F = 1 \text{ mA}, T_J = 100 ^{\circ}\text{C}$	-	0.17	-	
		I _F = 100 mA,T _J = 100 °C	-	0.48	-	
Reverse Current	I _R ⁽²⁾	$V_{R} = 24 V, T_{J} = 25 °C$	-	0.2	-	uA
		$V_{R} = 30 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	2	
		$V_{R} = 30 V, T_{J} = 100 \ ^{\circ}C$	-	38	-	

NOTES:

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



TYPICAL CHARACTERISTIC CURVES

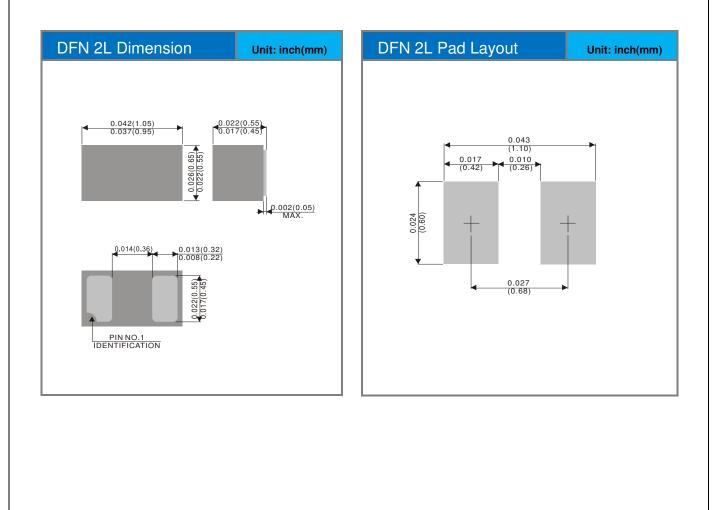




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54FN2-AU_R1_000A1	DFN 2L	8K / 7" Reel	BN	Halogen free

Packaging Information & Mounting Pad Layout





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