

#### SURFACE MOUNT SCHOTTKY DIODES Voltage 0.2 A

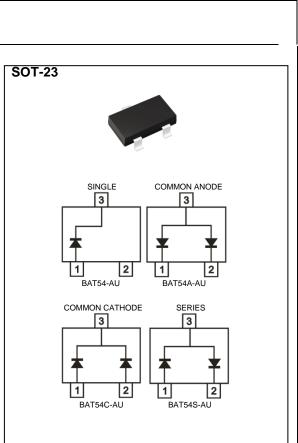
#### 30 V Current

#### Features

- Fast switching speed
- Surface mount package ideally suited for automatic insertion electrical identical standard JEDEC
- High conductor
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

#### **Mechanical Data**

- Case: SOT-23 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Maximum Rms Voltage	V <sub>RMS</sub>	21	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	30	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	0.2	А
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	0.6	A
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$	CJ	10	pF
Typical Thermal Resistance	R <sub>0JA</sub> <sup>(1)</sup>	350	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~125	°C





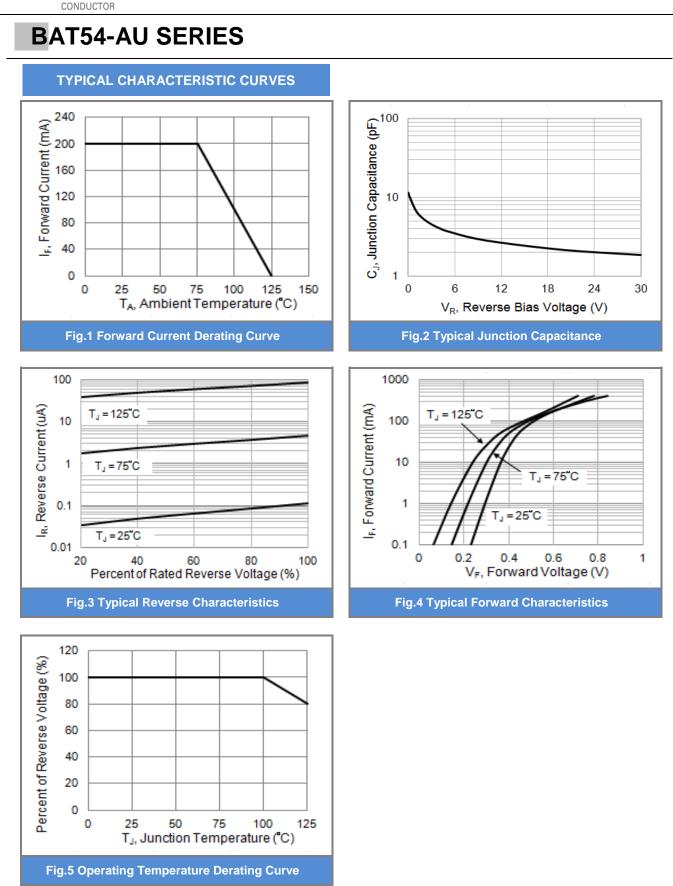
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Electrical Characteristics	$(T_A = 25$ C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	$I_{F} = 1 \text{ mA}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.32	
		$I_F = 100 \text{ mA}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.6	V
		I <sub>F</sub> = 1 mA, T <sub>J</sub> = 125 °C	-	0.14	-	V
		I <sub>F</sub> = 100 mA, T <sub>J</sub> = 125 °C	-	0.47	-	
Reverse Current	$I_{R}^{(2)}$	$V_{R} = 24 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.1	-	uA
		$V_R = 30 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	2	
		$V_R = 30 \text{ V}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	90	-	

NOTES:

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



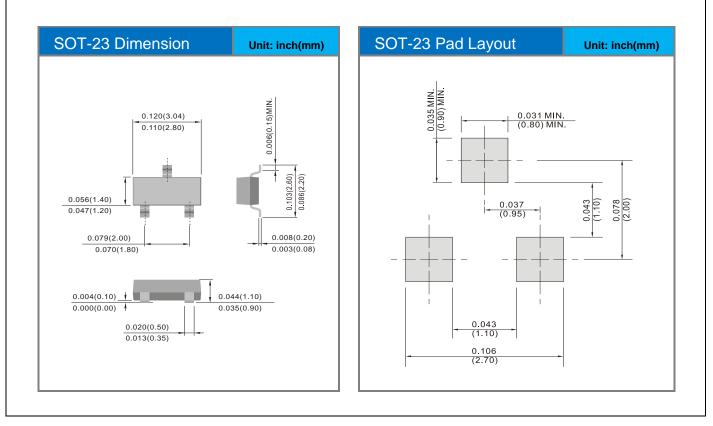




#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54-AU_R1_000A1	SOT-23	3K / 7" Reel	L4	Halogen free
BAT54A-AU_R1_000A1	SOT-23	3K / 7" Reel	L42	Halogen free
BAT54C-AU_R1_000A1	SOT-23	3K / 7" Reel	L43	Halogen free
BAT54S-AU_R1_000A1	SOT-23	3K / 7" Reel	L44	Halogen free

### Packaging Information & Mounting Pad Layout





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