

SURFACE MOUNT SCHOTTKY DIODES Voltage 0.2 A

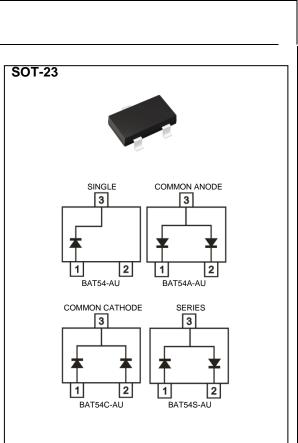
30 V Current

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 _{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	A
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$	CJ	10	pF
Typical Thermal Resistance	R _{0JA} ⁽¹⁾	350	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C





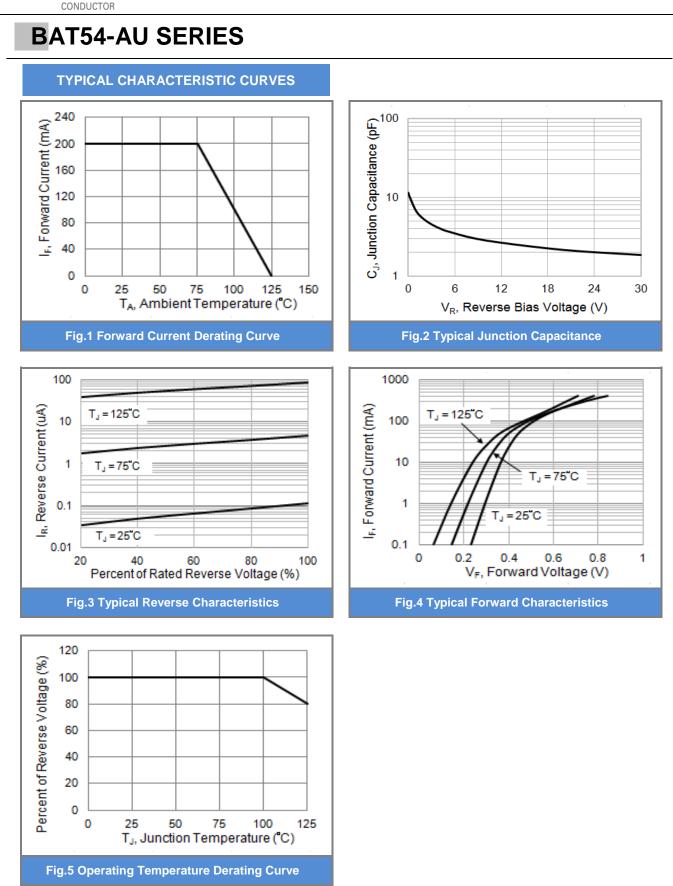
	0
Electrical Characteristics	$(T_A = 25$ C unless otherwise noted)

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	
		$I_F = 100 \text{ mA}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.6	V
		I _F = 1 mA, T _J = 125 °C	-	0.14	-	V
		I _F = 100 mA, T _J = 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



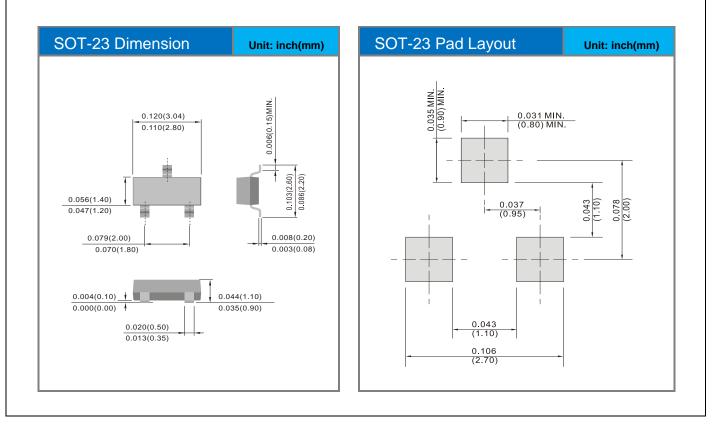




Part No Packing Code Version

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





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

BAT54C-AU_R1_000A1 BAT54C-AU_R1_100A1 BAT54C-AU_R2_000A1 BAT54C-AU_R2_100A1