



## SURFACT MOUNT SCHOTTKY BARRIER

**VOLTAGE** 30 Volts

CURRENT 0.2 Ampers

**PACKAGE** 

**SOT-23** 

## **FEATURES**

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.

## **MECHANICAL DATA**

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram Marking: L4, L42, L43, L44



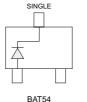
## **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

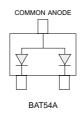
Ratings at 25°C ambient temperature unless otherwise specified.

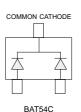
Single phase, half wave, 60 Hz, resistive or inductive load.

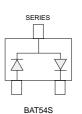
For capacitive load, derate current by 20%.

Parameter	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Units
Peak Repetitive Reverse Voltage	VRRM	30	30	30	30	V
Maximum Average Forward Current at Ta=25°C	lo	0.2	0.2	0.2	0.2	Α
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	<b>I</b> FSM	0.6	0.6	0.6	0.6	Α
Maximum Instantaneous Forward Voltage	VF	0.32 @ IF=0.001A 1.0 @ IF=0.1A				٧
Maximum DC Reverse Current at Rated DC Blocking Voltage	<b>I</b> R	0.002 @V <sub>R</sub> =25V				mA
Thermal Resistance, Junction to Ambient Air	RθJA	635				°C / W
Operating Junction Temperature Range	TJ	-55 TO +125				°C
Storage Temperature Range	Тѕтс	-55 TO +125				°C









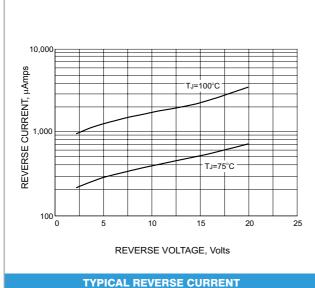
Part Number: BAT54, BAT54A, BAT54C, BAT54S

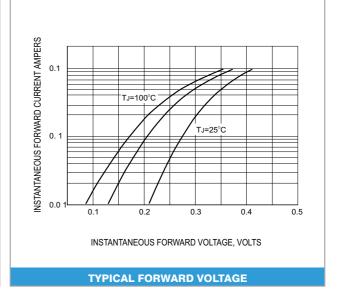
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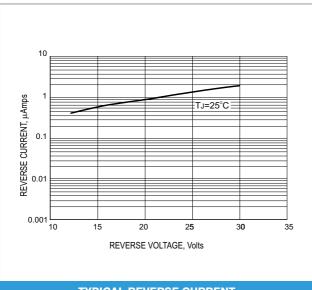


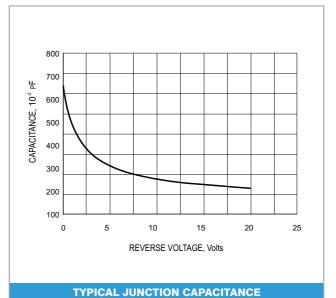
# RATING and CHARACTERISTIC CURVES



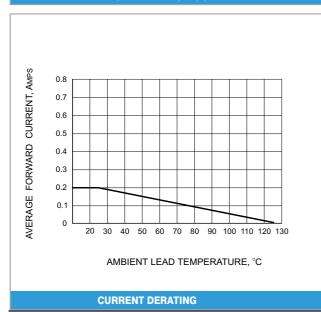








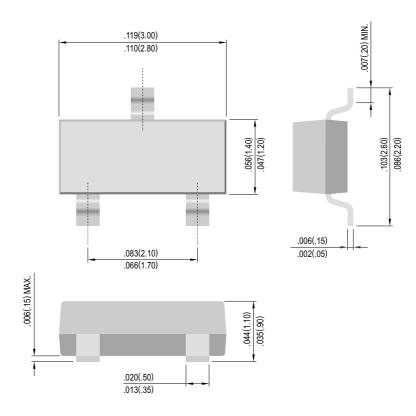
### **TYPICAL REVERSE CURRENT**



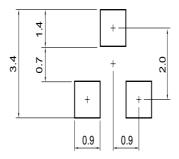




## SOT-23



## **Suggested Mounting Pad Layout**



Dimensions in (millimeters)

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Part Number: BAT54, BAT54A, BAT54C, BAT54S

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Datasheets for electronics components.