



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



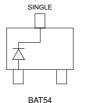
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

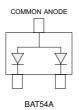
Ratings at 25°C ambient temperature unless otherwise specified.

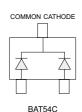
Single phase, half wave, 60 Hz, resistive or inductive load.

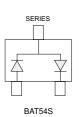
For capacitive load, derate current by 20%.

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	ю	0.2	0.2	0.2	0.2	А
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I FSM	0.6	0.6	0.6	0.6	Α
Maximum Instantaneous Forward Voltage	VF	0.32 @ I⊧=0.001A 1.0 @ I⊧=0.1A				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	lR	0.002 @Vn=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







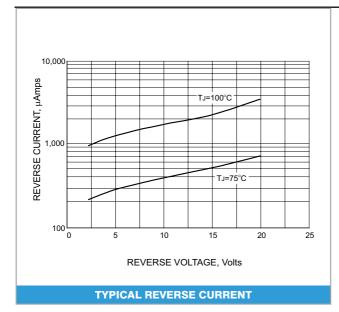


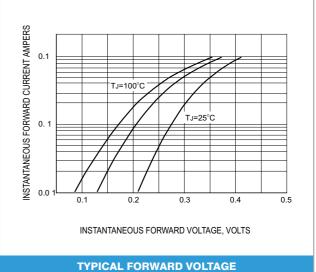
Part Number: BAT54, BAT54A, BAT54C, BAT54S



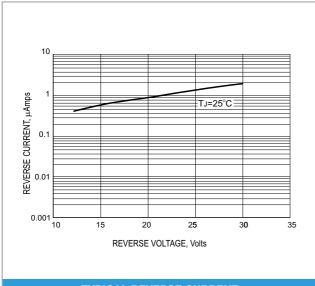
RATING and CHARACTERISTIC CURVES

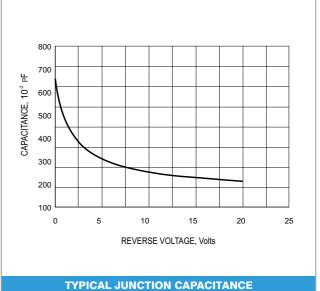




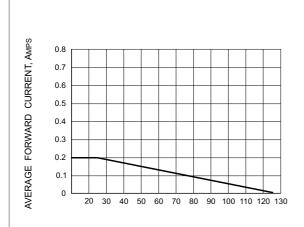








TYPICAL REVERSE CURRENT



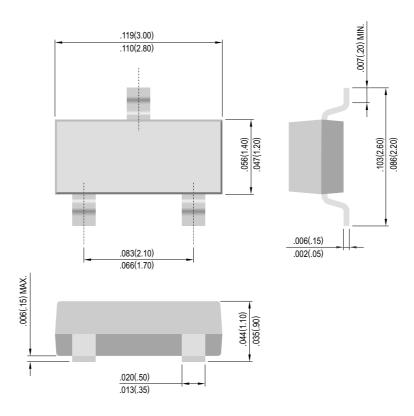
AMBIENT LEAD TEMPERATURE, °C

CURRENT DERATING

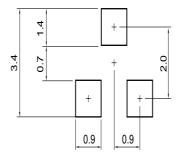




SOT-23



Suggested Mounting Pad Layout



Dimensions in (millimeters)

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Part Number: BAT54, BAT54A, BAT54C, BAT54S

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