

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 30 Volts

CURRENT 0.2 Ampers

PACKAGE

**SOD-323** 

## **FEATURES**

· Low turn-on voltage

Fast switching

• PN Junction Guard Ring for Transient and ESD Protection.

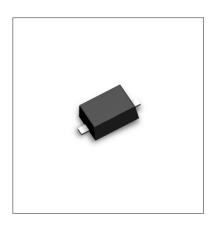
## **MECHANICAL DATA**

Case: SOD-323, Plastic

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

Approx. Weight: 0.008 gram

Marking: L2, L3, L4



## **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%.

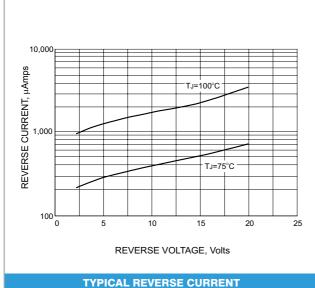
Parameter	Symbol	BAT42WS	BAT43WS	BAT54WS	Units
Peak Repetitive Reverse Voltage	VRRM	30	30	30	V
Maximum Average Forward Current at Ta=25°C	lo	0.2	0.2	0.2	А
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	<b>I</b> FSM	4.0	4.0	0.6	А
Maximum Instantaneous Forward Voltage	VF	0.4 @ IF=0.01A 1.0 @ IF=0.2A	0.33 @ IF=0.002A 1.0 @ IF=0.2A	0.32 @ IF=0.001A 1.0 @ IF=0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	lR	0.5 @V <sub>R</sub> =30V	0.5 @V <sub>R</sub> =30V	2.0 @V <sub>R</sub> =25V	μА
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

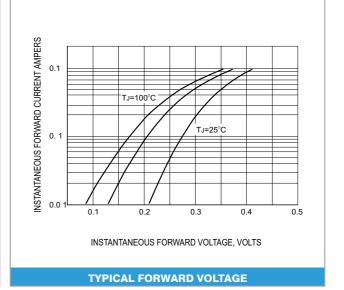
Part Number: BAT42WS, BAT43WS, BAT54WS

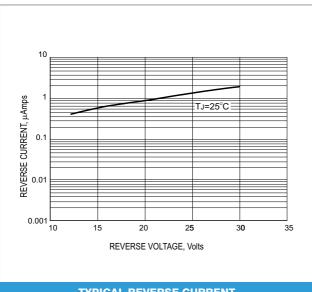


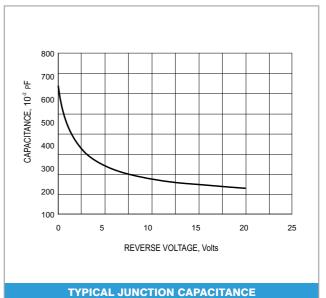
# RATING and CHARACTERISTIC CURVES



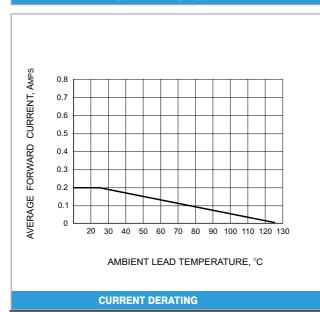








### **TYPICAL REVERSE CURRENT**

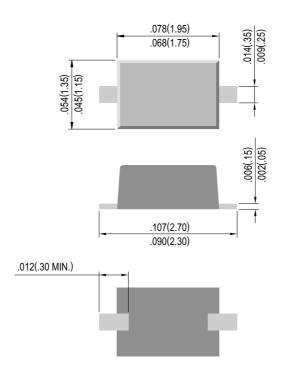


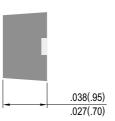
Part Number: BAT42WS, BAT43WS, BAT54WS





## SOD-323





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