

# DaSI S "

## **BAT54SW**

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

#### **Features**

- Extremely Fast Switching Speed
- Low Forward Voltage -0.35 Volts (Typ) @  $I_F = 10$  mAdc
- NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable

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## **BAT54SW**

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Characteristic	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage (I <sub>R</sub> = 10 μA)	V <sub>(BR)R</sub>	30	-	-	V
Reverse Leakage (V <sub>R</sub> = 25 V)	I <sub>R</sub>	-	0.2	2.0	μΑ
Forward Voltage (I <sub>F</sub> = 0.1 mA) (I <sub>F</sub> = 1.0 mA) (I <sub>F</sub> = 10 mA) (I <sub>F</sub> = 30 mA) (I <sub>F</sub> = 100 mA)	V <sub>F</sub>	- - - -	0.22 0.29 0.35 0.41 0.52	0.24 0.32 0.40 0.5 0.8	V

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Total Capacitance (V<sub>R</sub> = 1.0 V, f = 1.0 MHz)

## **BAT54SW**

## **TYPICAL CHARACTERISTICS**

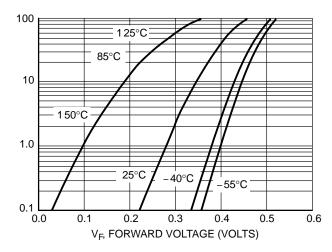


Figure 2. Forward Voltage

Figure 3. Leakage Current

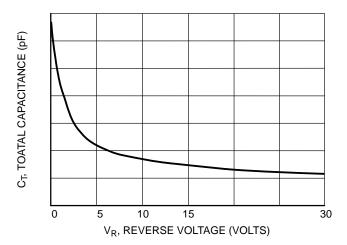


Figure 4. Total Capacitance

## SC-70 (SOT-323) CASE 419 ISSUE R



**DATE 11 OCT 2022** 

## GENERIC MARKING DIAGRAM



XX = Specific Device Code M = Date Code

M = Date Code = Pb-Free Package

\*This information is generic. Please refer to device data sheet for actual part marking.

Pb-

STYLE 1: CANCELLED	STYLE 2: PIN 1. ANODE 2. N.C. 3. CATHODE	STYLE 3: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. CATHODE	
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	STYLE 10:	STYLE 11:
PIN 1. EMITTER	PIN 1. BASE	PIN 1. GATE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. CATHODE
2. BASE	2. EMITTER	2. SOURCE	2. CATHODE	2. ANODE	2. CATHODE
3. COLLECTOR	3. COLLECTOR	3. DRAIN	3. CATHODE-ANODE	3. ANODE-CATHODE	3. CATHODE

