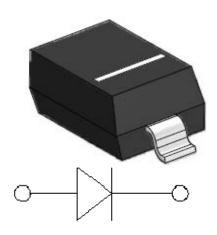


### **BAT42WS**



# **Small Signal Schottky Diode**



#### **Features**

V<sub>R</sub> 30VI<sub>FAV</sub> 200mA

### **Mechanical Data**

• Package: SOD-323

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

• Marking: S7

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V	I <sub>R</sub> =10uA	30
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	А	t <sub>p</sub> =8.3ms	4
Average forward current	I <sub>FAV</sub>	mA		200
Power dissipation	P <sub>D</sub>	mW		200
Junction temperature	T <sub>j</sub>	°C		125
Storage temperature range	$T_{stg}$	°C		-55 to +150

### **■Electrical Characteristics** (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
		V	I <sub>F</sub> =10mA	0.4
Maximum Forward voltage	V <sub>F</sub>	V	I <sub>F</sub> =50mA	0.65
		V	I <sub>F</sub> =200mA	1
Maximum Reverse current	I <sub>R</sub>	uA	V <sub>R</sub> =25V	0.5
Minimum Breakdown voltage	V <sub>R</sub>	V	I <sub>R</sub> =10μA	30
Maximum Diode capacitance	C <sub>D</sub>	pF	V <sub>R</sub> =1V, f=1MH <sub>Z</sub>	20

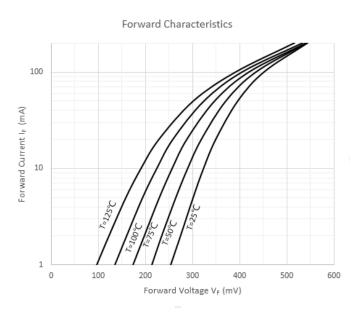


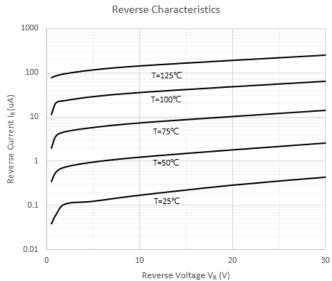
# **BAT42WS**

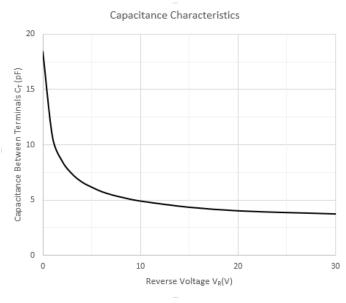
**■Ordering Information** (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT42WS	F2	Approximate 0.004	3000	30000	120000	7" reel

## ■ Characteristics (Typical)

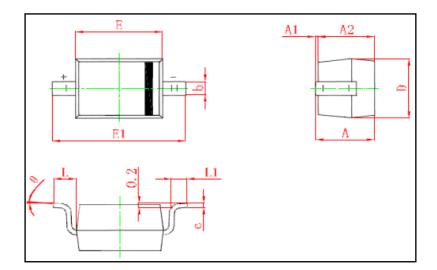






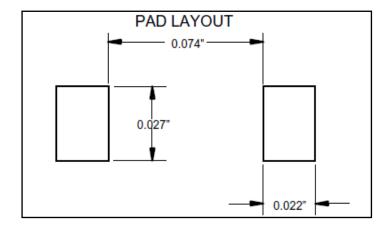


## ■ SOD-323 Package Outline Dimensions



Symbol	Min. (mm)	Max. (mm)	
A		1.000	
A1	0.000	0. 100	
A2	0.800	0.900	
b	0. 250	0. 400	
С	0.080	0. 150	
D	1. 200	1. 400	
E	1.600	1. 800	
E1	2. 500	2. 700	
L	0. 475REF		
L1	0. 250	0.400	
θ	0°	8°	

## ■ SOD-323 Soldering Footprint



Unit: inches



### **BAT42WS**

#### **Disclaimer**

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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