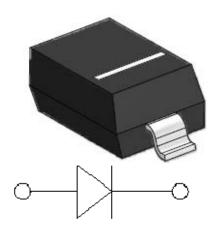






# **Small Signal Schottky Diode**



#### **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 (T<sub>a</sub>=25°C Unless otherwise specified)

=maximum reacings ( a	1 /			
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>	Α	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
Maximum Forward voltage	V <sub>F</sub>	V	I <sub>F</sub> =10mA	0.4
		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

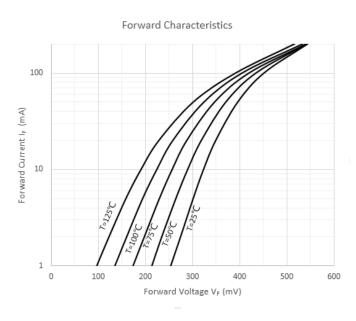


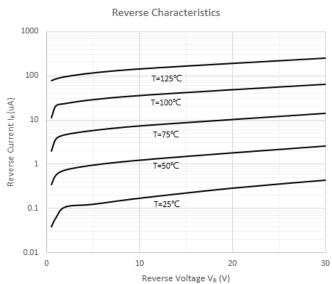
# **BAT42WS**

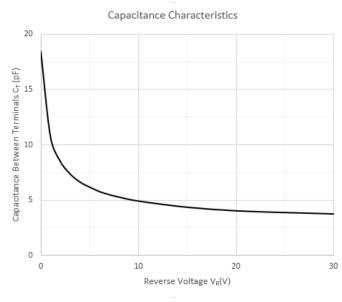
**■Ordering Information** (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT42WS	F2	Approximate 0.0048	3000	30000	120000	7" reel

## ■ Characteristics (Typical)



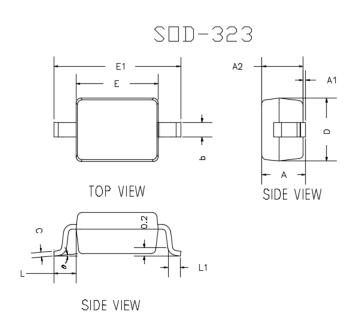






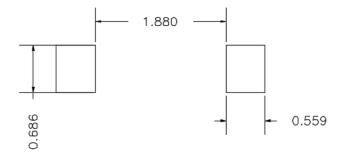
# **BAT42WS**

### **■**Outline Dimensions



DIMENSIONS				
DIM	INC	HES	ММ	
	MIN	MAX	MN	MAX
А		0.0393		1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
lo	0.0098	0.0157	0.2500	0.4000
С	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1,2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2,7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
9	0°	8*	0°	8*

## **■**Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



### **BAT42WS**

#### **Disclaimer**

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