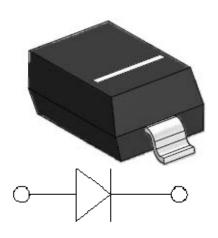




# **Small Signal Schottky Diode**



#### **Features**

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

### **Mechanical Data**

• Package: SOD-123

• **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)

Emaximum Natings (1a 25 ° Chiese curerwise specifica)						
PARAMETER	SYMBOL	UNIT	Conditions	VALUE		
Repetitive peak reverse voltage	$V_{RRM}$	٧	I <sub>R</sub> =10uA	30		
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>tot</sub>	mW		350		
Thermal Resistance	R <sub>thJA</sub>	°C/W		265		
Maximum 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	$V_R$	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

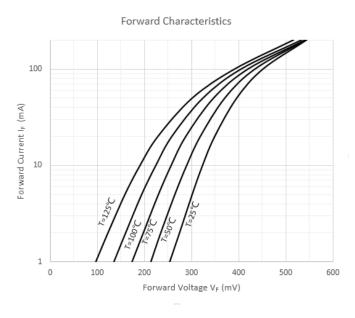


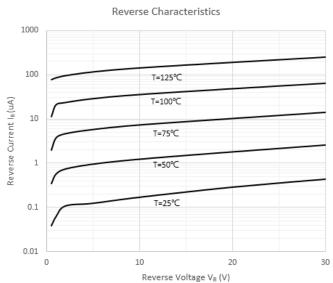
# **BAT42W**

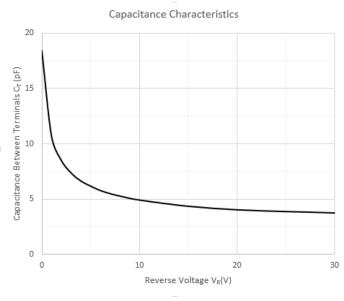
**■Ordering Information** (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT42W	F2	Approximate 0.011	3000	30000	120000	7" reel

## ■ Characteristics (Typical)



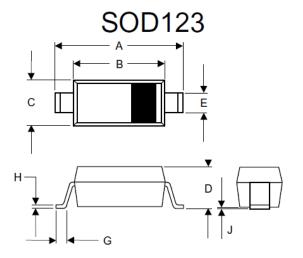






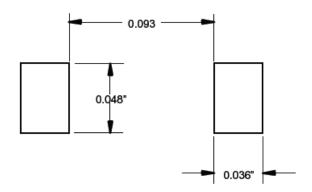


### **■ Outline Dimensions**



DIMENSIONS							
DIM	INC	HES	M	NOTE			
	MIN	MAX	MIN	MAX			
Α	.140	.152	3.55	3.85			
В	.100	.112	2.55	2.85			
С	.055	.071	1.40	1.80			
D		.053		1.35			
Е	.012	.031	0.30	.78			
G	.006		0.15				
Н		.01		.25			
J		.006		.15			

### ■ Soldering Footprint



Unit: inches



### BAT42W

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