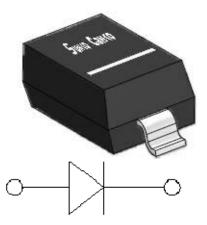


BAT42WS

Small Signal Schottky Diode



Features

- V_R 30V
- I_{FAV} 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 _R =10uA	30
Non-Repetitive Peak Forward Surge Current	I _{FSM}	A	t _p =8.3ms	4
Average forward current	I _{FAV}	mA		200
Power dissipation	P _D	mW		200
Junction temperature	Tj	°C		125
Storage temperature range	T _{stg}	°C		-55 to +150

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
	V I _F =10mA	I _F =10mA	0.4	
Maximum Forward voltage	VF	V	I _F =50mA	0.65
		V	I _F =200mA	1
Maximum Reverse current	I _R	uA	V _R =25V	0.5
Minimum Breakdown voltage	V _R	V	I _R =10μΑ	30
Maximum Diode capacitance	C _D	pF	V _R =1V, f=1MH _Z	20

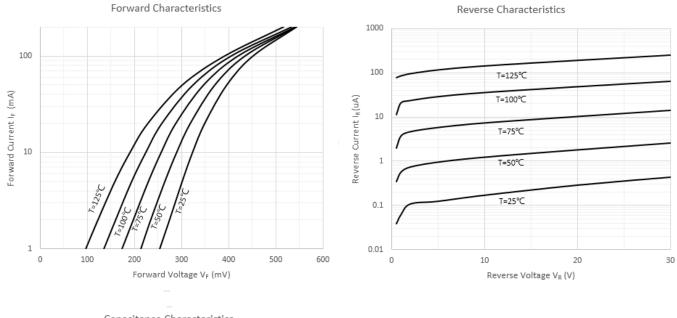


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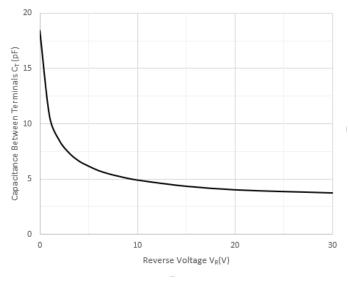
Ordering Information (Example)

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)

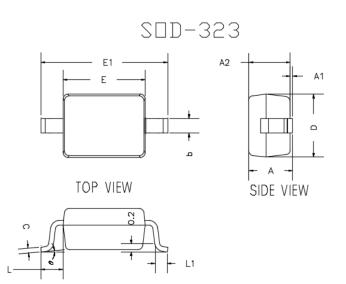








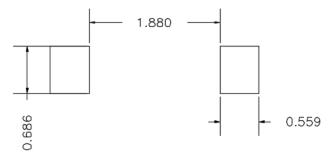
Outline Dimensions



		DIMENSIONS		
DIM	INCHES		ММ	
	MIN	MAX	MN	MAX
Α		0.0393		1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	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
θ	0°	8°	0°	8*

SIDE VIEW

■Soldering Footprint



UNIT: mm SUGGESTED SOLDER PAD LAYOUT

Shanghai Sunco Electronics Co., Ltd



BAT42WS

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