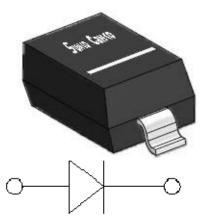


Small Signal Schottky Diode



Features

- V_R 30V
- I_{FAV} 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 (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V	I _R =10uA	30
Peak forward surge current	I _{FSM}	А	t _p =8.3ms	4
Average forward current	I _{FAV}	mA		200
Power dissipation	P _{tot}	mW		350
Thermal Resistance	R _{thJA}	°C/W		265
Maximum 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
Maximum Forward voltage		V	I _F =10mA	0.4
	V _F	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 =10μA	30
Maximum Diode capacitance	CD	pF	V _R =1V, f=1MH _z	20

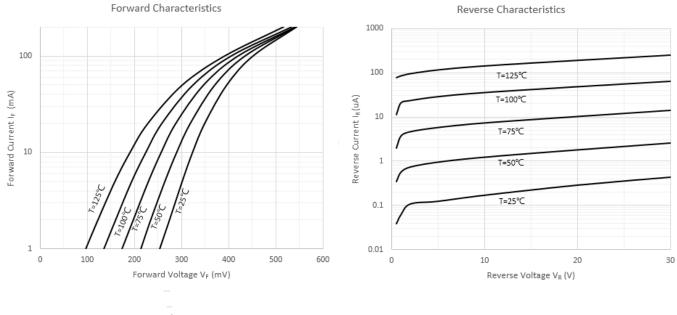
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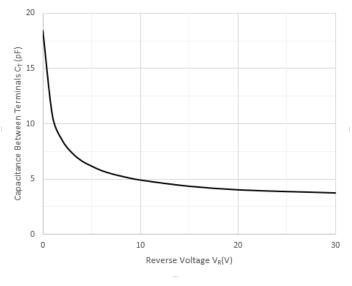
■Ordering Information (Example)

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

Characteristics (Typical)



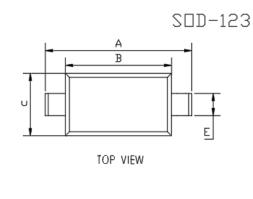
Capacitance Characteristics

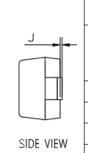


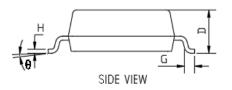


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Outline Dimensions

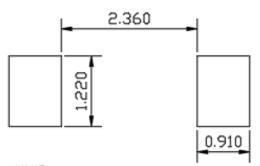






	DIMENSIONS						
	DIM	INC	HES	ММ			
		MIN	MAX	MN	MAX		
ll I	А	0.140	0.152	3.550	3.850		
	В	0.100	0.112	2.550	2.850		
EW	С	0.055	0.071	1.400	1.800		
	D	0.037	0.053	0.950	1.350		
	E	0.020	0.028	0.510	0.710		
	G	0.006	0.018	0.150	0.450		
	н	0.003	0.010	0.080	0.250		
	J	0.000	0.006	0.000	0.150		
	θ	0	8°	0	8°		

Soldering Footprint



UNIT: mm SUGGESTED SOLDER PAD LAYOUT



Disclaimer

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