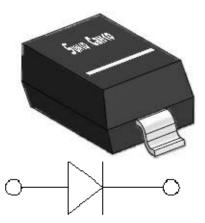


Small Signal Schottky Diode



Features

- V_R 100V
- I_{FAV} 150mA

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: S9

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V _{RRM}	V		100
Non-Repetitive Peak Forward Surge Current	I _{FSM}	mA	t _p =8.3ms	750
Average forward current	I _{FAV}	mA		150
Power dissipation	P _D	mW		200
Thermal Resistance From Junction To Ambient	$R_{ ext{ hetaJA}}$	°C/W		500
Junction temperature	Tj	°C		125
Storage temperature range	T _{stg}	°C		-55 to +150

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

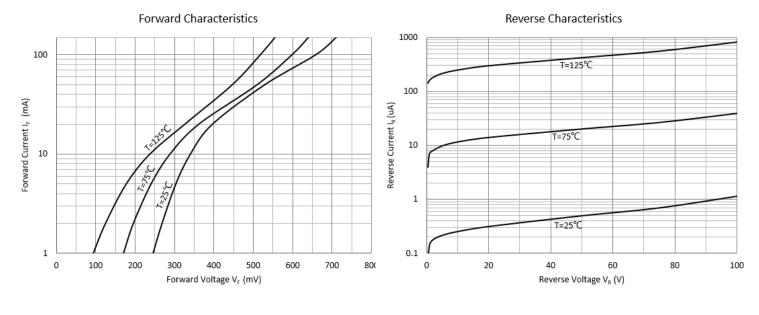
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V _F	V	I _F =0.1mA	0.25
		V	I _F =10mA	0.45
		V	I _F =250mA	1
Maximum Reverse current	I _R	uA	V _R =1.5V	0.3
		uA	V _R =10V	0.5
		uA	V _R =50V	1
		uA	V _R =75V	2
Minimum Breakdown voltage	V _R	V	I _R =100μΑ	100
Maximum Diode capacitance	C _D	pF	$V_R=0V, f=1MH_Z$	20
			V _R =1V, f=1MH _Z	12



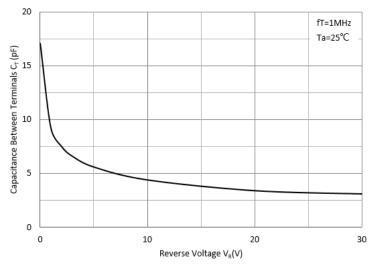
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT46W	F2	Approximate 0.011	3000	30000	120000	7" reel

Characteristics (Typical)



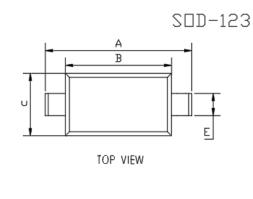


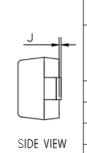


Shanghai Sunco Electronics Co., Ltd



Outline Dimensions

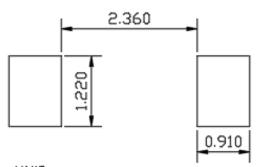




Н		
1±A		$- \lambda_{-}$
0		G A
	SIDE VIEW	1 1

	DIMENSIONS					
╢┱	DIM	INC	HES	١	чм	
]		MIN	MAX	MN	МАХ	
Ų	А	0.140	0.152	3.550	3.850	
	В	0.100	0.112	2.550	2.850	
w	С	0.055	0.071	1.400	1.800	
. v v	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

The information presented in this document is for reference only. Shanghai Sunco Electronics Co., Ltd reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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), Russiansunco or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.russiansunco.com , or consult your nearest Russiansunco's sales office for further assistance.