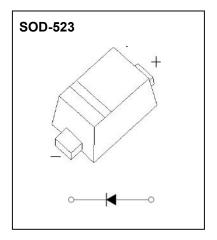


SOD-523 Plastic-Encapsulate Diodes

CSD521S523 Schottky barrier Diode

FEATURE

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



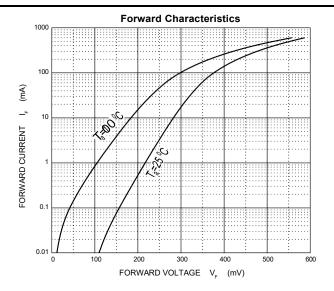
MMaximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

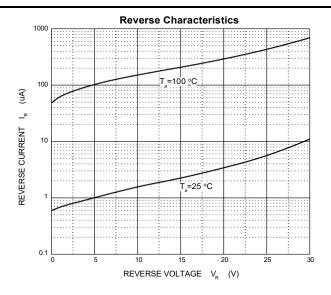
Parameter	Symbol	Limit	Unit
DC reverse voltage	V _R	30	V
Mean rectifying current	lo	200	mA
Non-repetitive Peak forward surge current @ t=8.3ms	I _{FSM}	1	А
Power dissipation	P _D	150	mW
Thermal Resistance Junction to Ambient	R _{θJA}	667	°C/W
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55~+150	℃

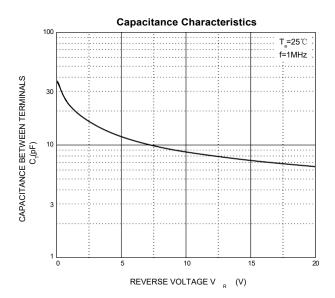
Electrical Ratings @Ta=25℃

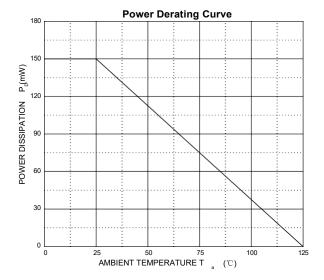
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	V _{F1}			0.35	V	I _F =10mA
	V _{F2}			0.5	V	I _F =200mA
Reverse current	I _R			30	μΑ	V _R =10V

Typical Characteristics

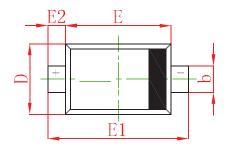


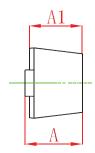


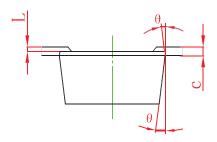




SOD-523 Package Outline Dimensions

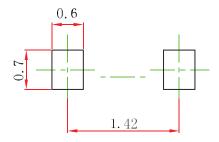






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
А	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
0	7° F	REF	7° REF		

SOD-523 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

Notice

Specifications of the products displayed herein are subject to change without notice. CCS or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in CCS terms and conditions of sale for such products, CCS assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of CCS products including liability or warranties relating to fitness for a particular purpose, merchant ability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications.

Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify CCS for any damages resulting from such improper use or sale.