

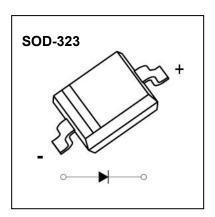
SOD-323 Plastic-Encapsulate Diodes

CSD16S323

Schottky Barrier Diode

FEA TURES

- Guard ring protection
- Low forward voltage drop
- For use in low voltage, high frequency inverters
- High surge current capability



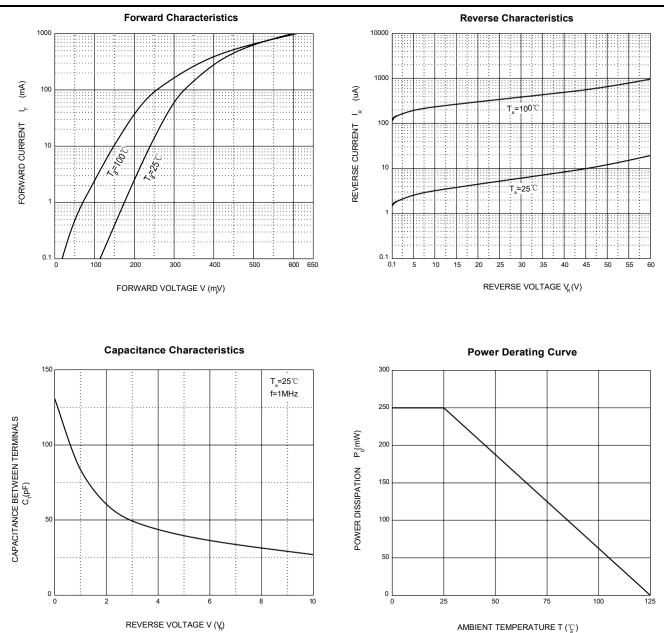
MAXIMUM RATINGS(Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{RRM}	Maximum recurrent peak reverse voltage	60		
V _{RMS}	Maximum RMS voltage	RMS voltage 42		
V _{DC}	Maximum DC blocking voltage	60		
IF	Continuous forward current	1	Δ	
I _{FSM}	Non-repetitive Peak forward surge current@t=8.3ms	10	A	
P _{tot}	Total power dissipation	250	mW	
R _{0JA}	Thermal resistance junction to ambient air	400	°C/W	
TJ	Junction temperature	125	ĉ	
Tstg	storage temperature	-55~+150	°C	

ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

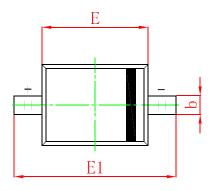
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Maximum instantaneous forward voltage	VF	I _F =1A			0.7	V
Maximum DC reverse current at rated DC	IR	V _R =60V			0.1	mA
blocking voltage						
Total capacitance	C _{tot}	V _R =4V,f=1MHz			120	pF

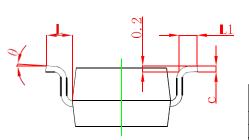
Typical Characteristics

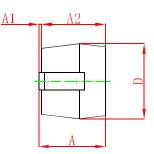


www.canctech.com

SOD-323 Package Outline Dimensions

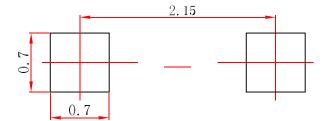






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A 1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019	REF.
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

SOD-323 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 lifesustaining 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.