

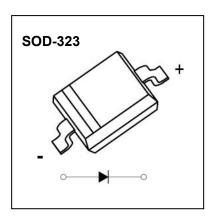
# SOD-323 Plastic-Encapsulate Diodes

## 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



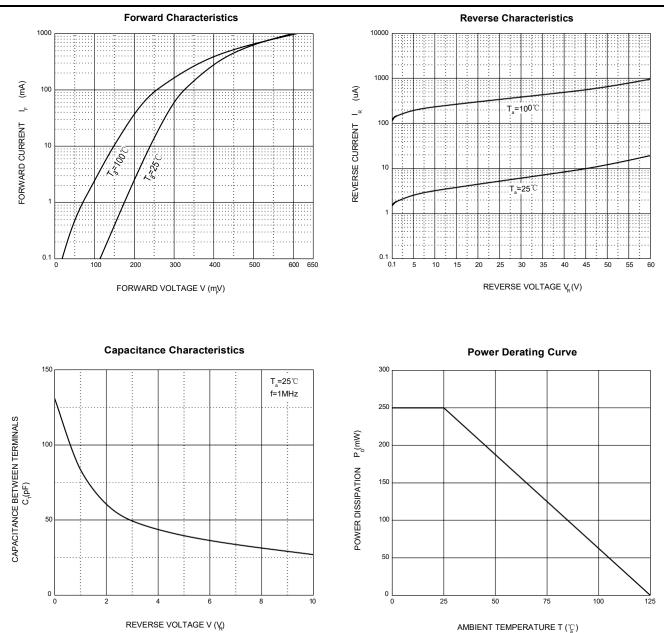
#### MAXIMUM RATINGS( Ta=25℃ unless otherwise noted )

Symbol	Parameter	Value	Unit	
V <sub>RRM</sub>	Maximum recurrent peak reverse voltage	60		
V <sub>RMS</sub>	Maximum RMS voltage	RMS voltage 42		
V <sub>DC</sub>	Maximum DC blocking voltage	60		
IF	Continuous forward current	1	Δ	
I <sub>FSM</sub>	Non-repetitive Peak forward surge current@t=8.3ms	10	A	
P <sub>tot</sub>	Total power dissipation	250	mW	
R <sub>0JA</sub>	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)

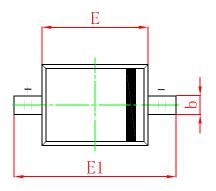
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Maximum instantaneous forward voltage	VF	I <sub>F</sub> =1A			0.7	V
Maximum DC reverse current at rated DC	IR	V <sub>R</sub> =60V			0.1	mA
blocking voltage						
Total capacitance	C <sub>tot</sub>	V <sub>R</sub> =4V,f=1MHz			120	pF

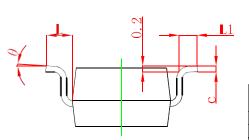
## **Typical Characteristics**

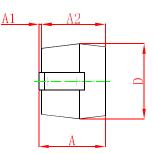


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### **SOD-323 Package Outline Dimensions**

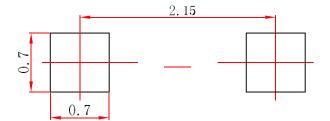






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A 1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019	REF.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

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