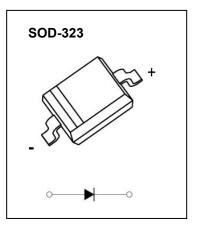


SOD-323 Plastic-Encapsulate Diodes

CSD46S323 SCHOTTKY BARRIER DIODE

FEATURES

- High breakdown voltage
- Low turn-on voltage
- Guard ring construction for transient protection



Maximum Ratings @T₁=25℃

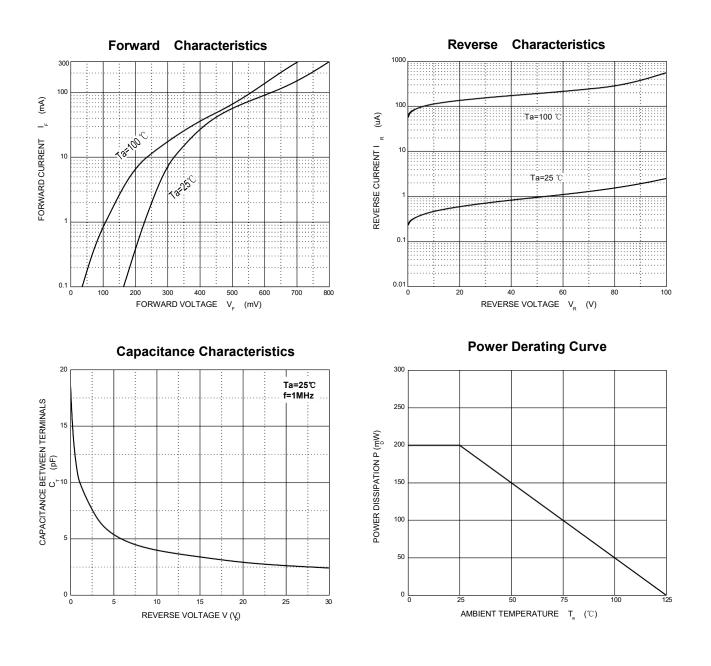
Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	V _{RRM}	100	V
Working peak reverse voltage	V _{RWM}	100	V
Forward continuous current	IF	150	mA
Repetitive peak forward current (Note 1) @ tp < 1.0s, Duty Cycle < 50%	I _{FRM}	350	mA
Non-repetitive Peak Forward surge current @ t = 8.3ms	I _{FSM}	750	mA
Power dissipation	PD	200	mW
Thermal resistance junction to ambient air	R _{0JA}	500	°C/W
Junction temperature	Tj	125	°C
Storage temperature	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

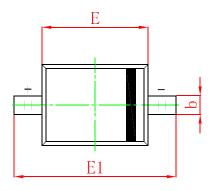
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Reverse breakdown voltage(Note 2)	V _R	I _R = 100μΑ	100			V	
Reverse voltage leakage current	I _R	V _{R1} =1.5V			0.3	ν μΑ ν	
		V _{R2} =10V			0.5		
		V _{R3} =50V			1		
		V _{R4} =75V			2		
Forward voltage(Note 2)	VF	I _{F1} =0.1mA			0.25	V	
		I _{F2} =10mA			0.45		
		IF3=250mA			1		
	_	V _R =0, f=1MHz		20		_	
Diode capacitance	Ст	V _R =1V, f=1MHz		12		pF	

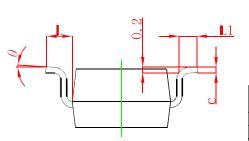
Notes: 1. Part mounted on FR-4 board with recommended pad layout.

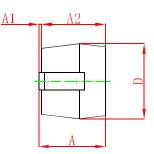
2. Short duration pulse test used to minimize self-heating effect.



SOD-323 Package Outline Dimensions

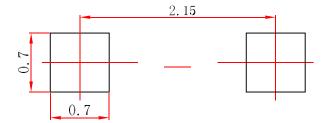






Symbol	Dimensions	n Millimeters	Dimensions In Inches		
	Min.	Max.	Min.	Max.	
A		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 REF.	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