

FEATURES

- Forward Continuous Current:I_F = 200 mA
- Power Dissipation of 200mw



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS40WS	SOD-323	43	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Parameter	Symbo	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	40	V
DC Blocking Voltage	V _R		
Forward Continuous Current	IF	200	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	600	mA
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	R _{0JA}	500	°C/W
Operating Junction Temperature Range	TJ	-40 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

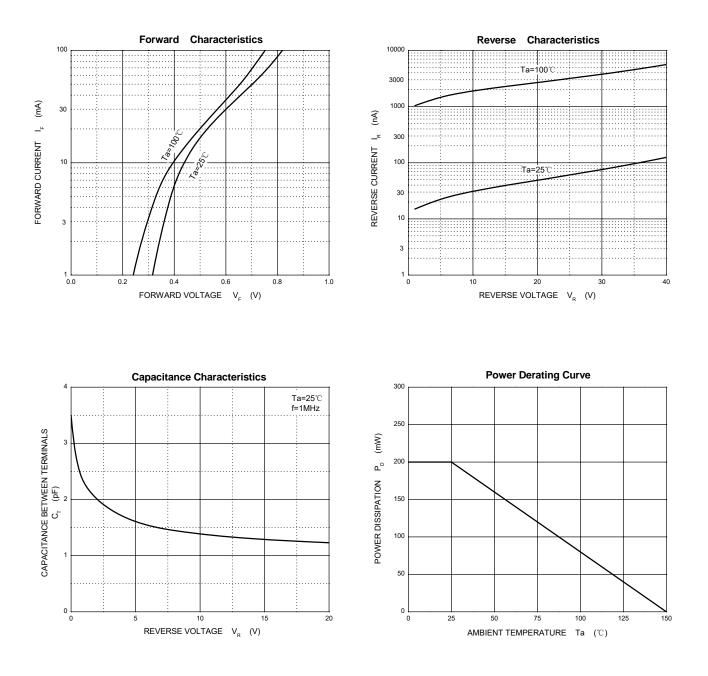
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Min	Тур	Мах	Unit	Conditions
Reverse breakdown voltage	V (BR)	40			V	Ι _R =10μΑ
	V _{F1}			0.38	V	I _F =1mA
Forward voltage	V _{F2}			0.5	V	I _F =10mA
	V _{F3}			1	V	I _F =40mA
Reverse current	I _R		20	200	nA	V _R =30V
Capacitance between terminals	Ст		4	5	pF	V _R =0V,f=1MHz
Reverse recovery time	t _{rr}			5	ns	I _F =I _R =10mA Irr=0.1XI _R ,R _L =100Ω



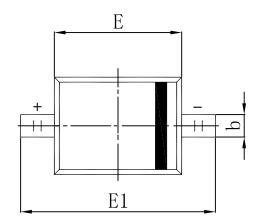
BAS40WS SCHOTTKY BARRIER DIODE

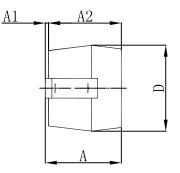
Typical Characteristics

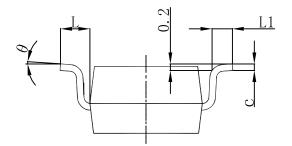




SOD-323 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
A		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
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	2.500	2.750	0.098	0.108	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	



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