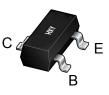


FEATURES

- Average Rectified Output Current:I₀=200 mA
- Power Dissipation of 225mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS21S	SOT-23	JS4	3000







MAXIMUM RATINGS (Ta=25 unless otherwise noted)

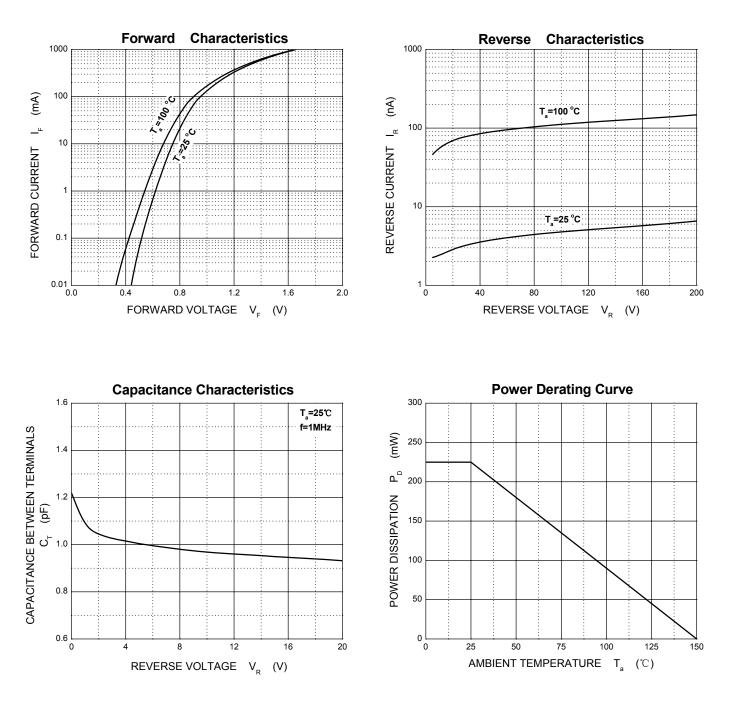
Parameter	Symbol	Limit	Unit
Repetitive peak reverse voltage	V _{RRM}		
Working peak reverse voltage	V _{RWM}	250	V
DC blocking voltage	V _R		
Forward continuous current	I _{FM}	400	mA
Average rectified output current	lo	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.5	А
Repetitive peak forward surge current	I _{FRM}	625	mA
Power dissipation	PD	225	mW
Thermal resistance junction to ambient	R _{0JA}	555	°C/W
Junction temperature	TJ	150	°C
Storage temperature range	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 100μA	250		V
Reverse voltage leakage current	I _R	V _R =200V		0.1	μA
Forward voltage	V _F	I _F =100mA I _F =200mA		1000 1250	mV
Diode capacitance	CD	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	I _F =I _R =30mA,I _{rr} =0.1×I _R ,R _L =100 Ω		50	ns

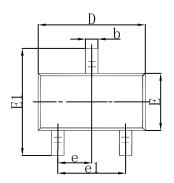


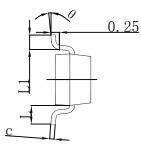
Typical Characteristics

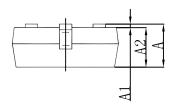




SOT-23 Package Outline Dimensions

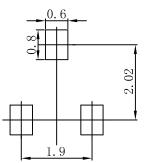






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 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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