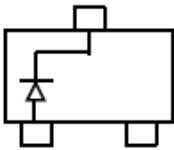
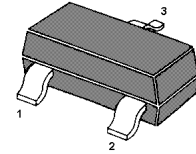


BAS21 ... SWITCHING DIODE

FEATURES

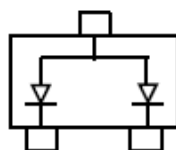
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

SOT-23



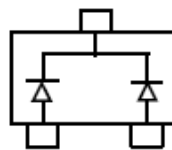
BAS21

Marking: JS



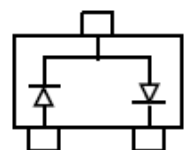
BAS21A

Marking: JS2



BAS21C

Marking: JS3



BAS21S

Marking: JS4

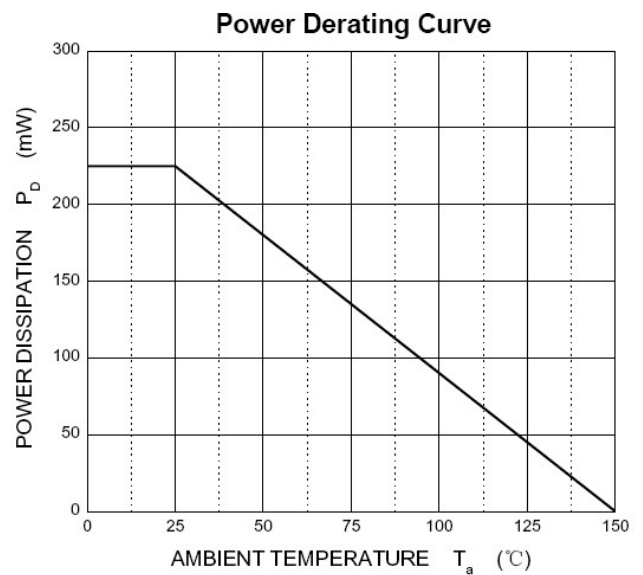
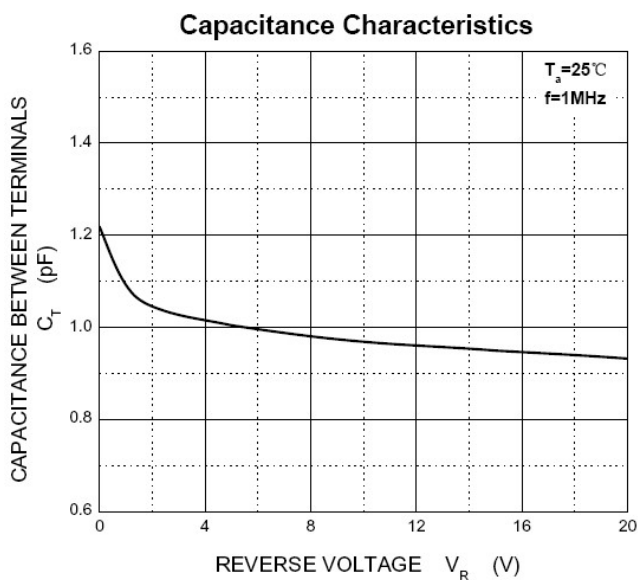
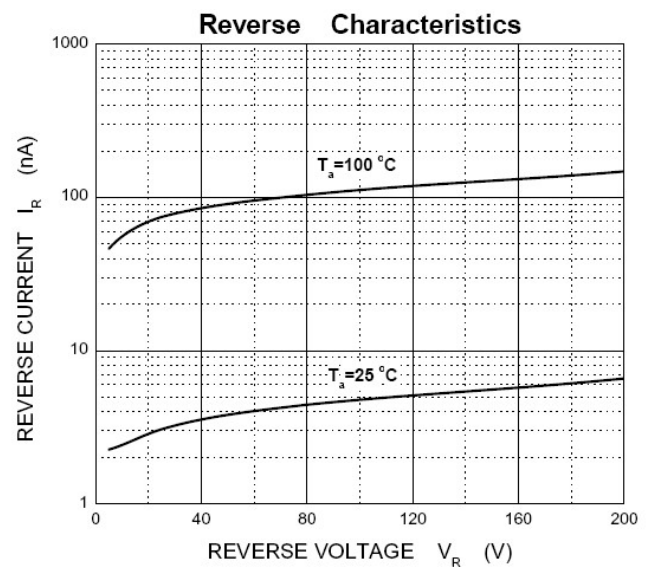
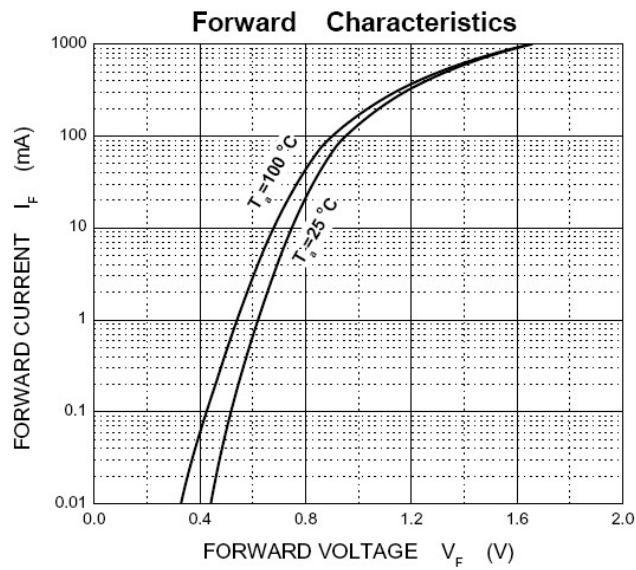
Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V _{RRM}	250	V
Working Peak reverse voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _{FM}	400	mA
Average Rectified Output Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I _{FSM}	2.5	A
Repetitive Peak Forward Surge Current	I _{FRM}	625	mA
Power Dissipation	P _D	225	mW
Thermal Resistance. Junction to Ambient Air	R _{θJA}	556	°C/W
Junction temperature	T _J	-55~+150	°C
Storage temperature range	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

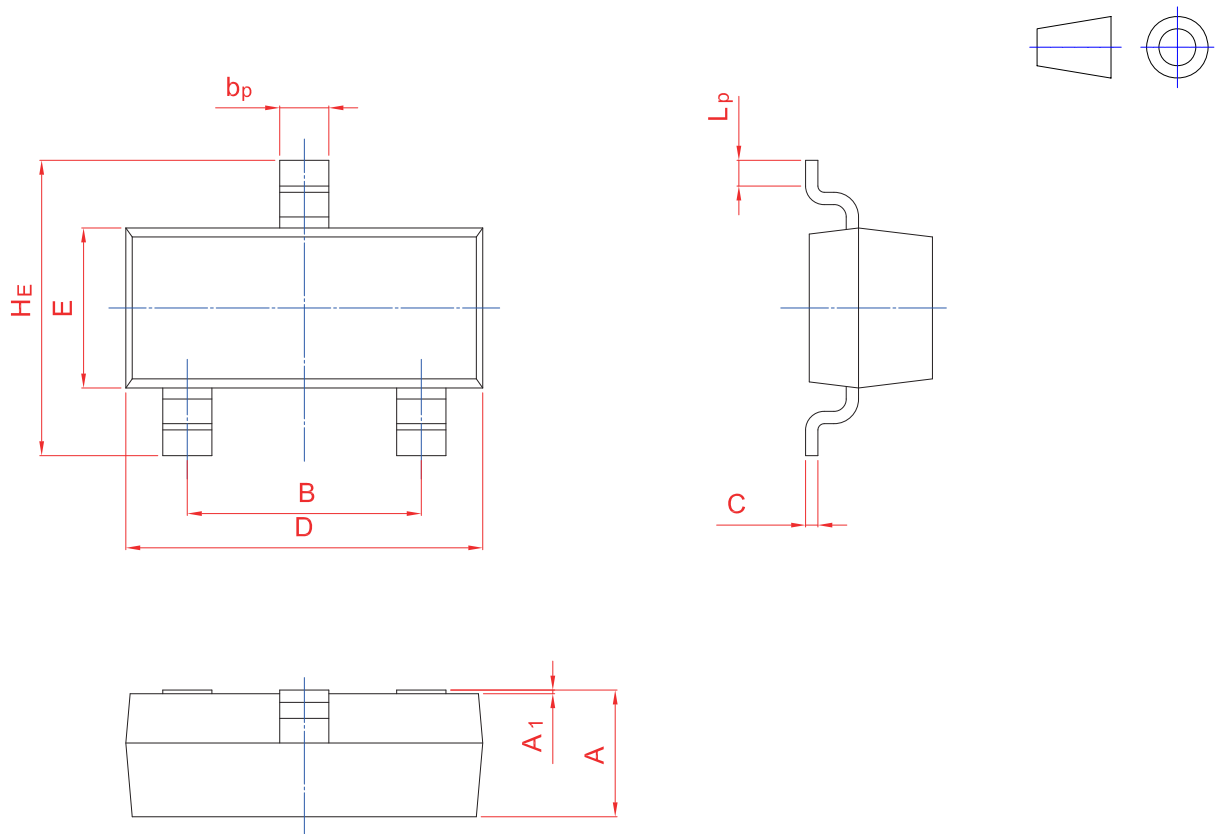
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R = 100μA	250		V
Reverse voltage leakage current	I _R	V _R =200V		0.1	μA
Forward voltage	V _F	I _F =100mA I _F =200mA		1000 1250	mV
Diode capacitance	C _D	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	I _F =I _R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

Typical Characteristics



Package Outline

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40 0.89	2.04 1.78	0.51 0.30	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20