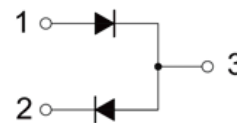


Features

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



SOT23



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Peak Reverse Voltage	250	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
I_{FM}	Forward Continuous Current	400	mA
I_o	Average Rectified Output Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.5	A
I_{FRM}	Repetitive peak forward surge current	625	mA
P_d	Power Dissipation	225	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	555	$^{\circ}\text{C}/\text{W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

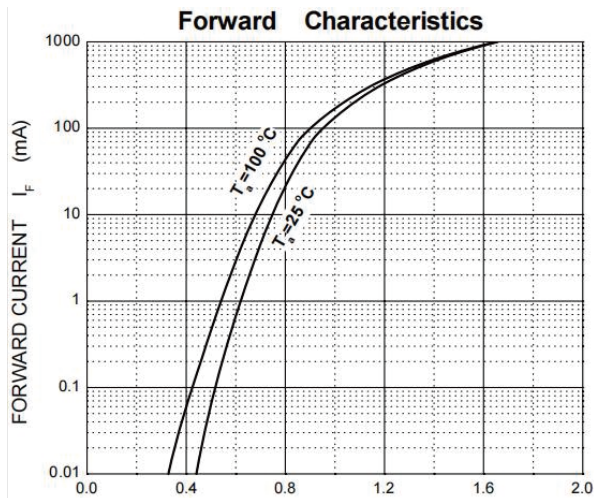
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=100\mu\text{A}$	250		V
I_R	Reverse current	$V_R=200\text{V}$		0.1	μA
V_F	Forward voltage	$I_F=100\text{mA}$		1000	mV
		$I_F=200\text{mA}$		1250	mV
C_D	Diode capacitance	$V_R=0\text{V}, f=1\text{MHz}$		5	pF
t_{rr}	Reverse recovery time	$I_F=I_R=30\text{mA}, I_{rr}=0.1 \times I_R, R_L=100\Omega$		50	nS

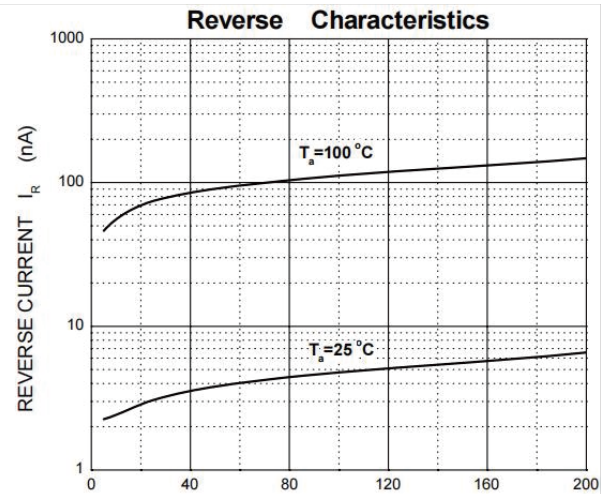
Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAS21S	JS4	BAS21S ↓ 产品名称 product name	SOT23	3000

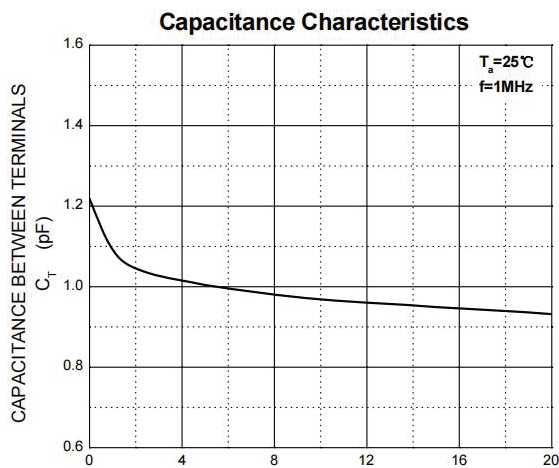
Typical Characteristics



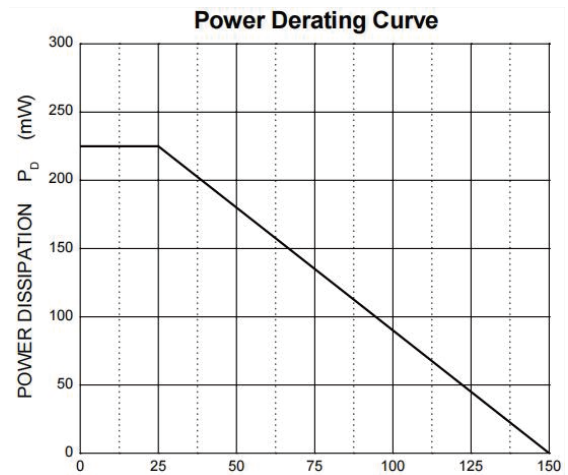
FORWARD VOLTAGE V_F (V)



REVERSE VOLTAGE V_R (V)



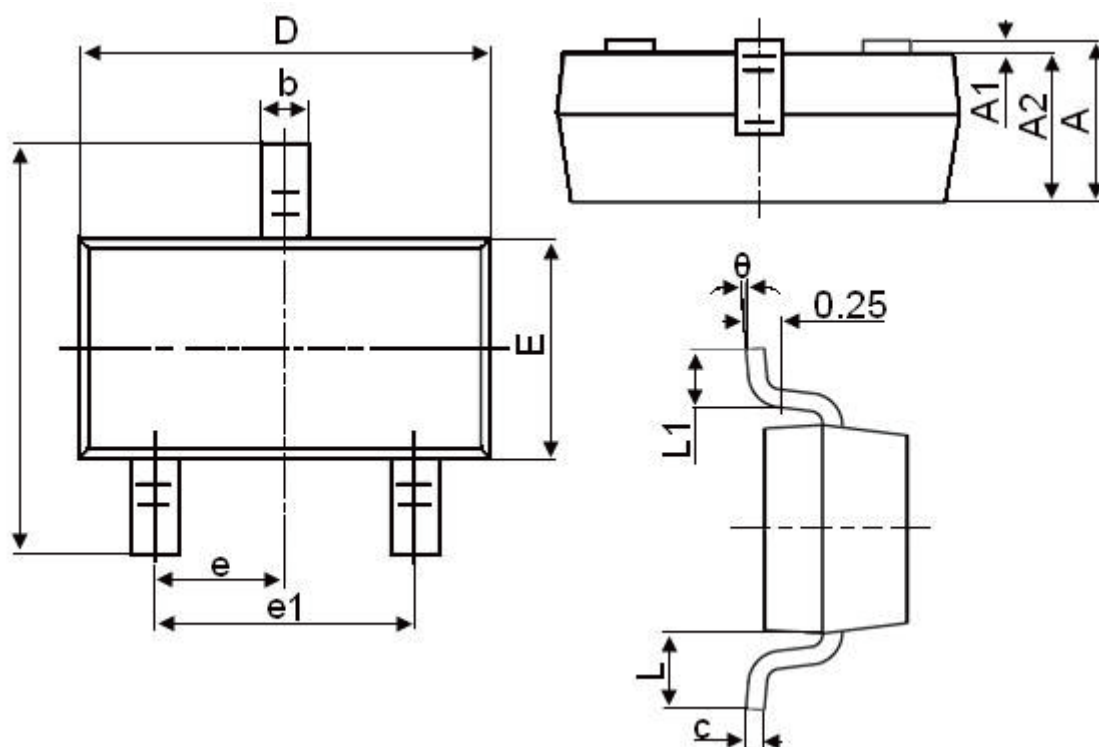
REVERSE VOLTAGE V_R (V)



AMBIENT TEMPERATURE T_a (°C)



SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°