

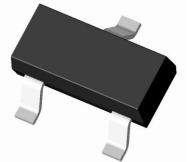
## SOT -23 Plastic-Encapsulate Switching Diode

### Features

- 50nS; Fast Switching Device (TRR <50 nS)
- 225mW ; Power Dissipation of 225mW
- High Stability and High Reliability
- Low reverse leakage
- AEC-Q101 Qualified



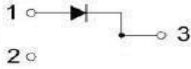


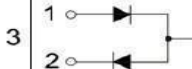
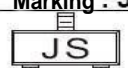
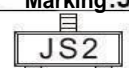
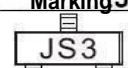
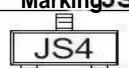
**RoHS**  
COMPLIAN



**SOT-23**

### Mechanical Data

- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

ABAS21	ABAS21A	ABAS21C	ABAS21S
			
Marking : JS	Marking: JS2	Marking JS3	Marking JS4
			

### Maximum Ratings & Thermal Characteristics (@ T<sub>A</sub> = 25°C unless otherwise specified)

Para meters	Symbol	V alue	Unit
Reverse Voltage	V <sub>R</sub>	250	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	250	V
Power Dissipation	P <sub>d</sub>	225	mW
Non-repetitive Peak Forward Current	I <sub>FM</sub>	400	mA
Repetitive peak forward surge current	I <sub>FRM</sub>	625	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms; TA=25°C	I <sub>FSM</sub>	2.5	A
Operating junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>s</sub>	-55-+150	°C
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	555	°C/W

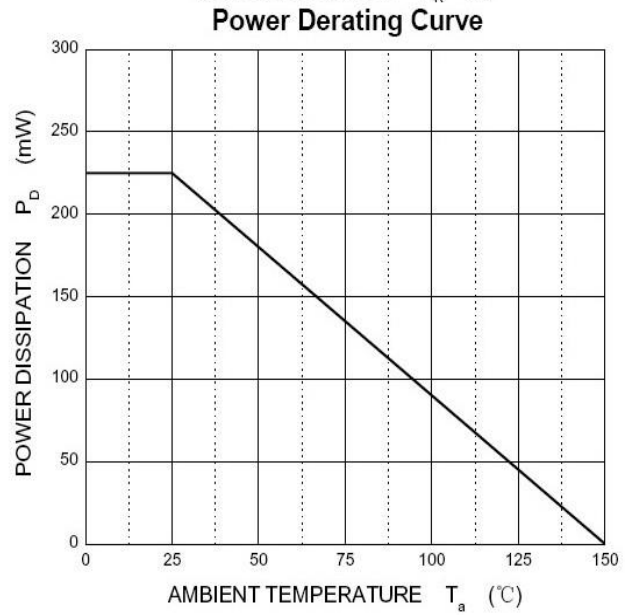
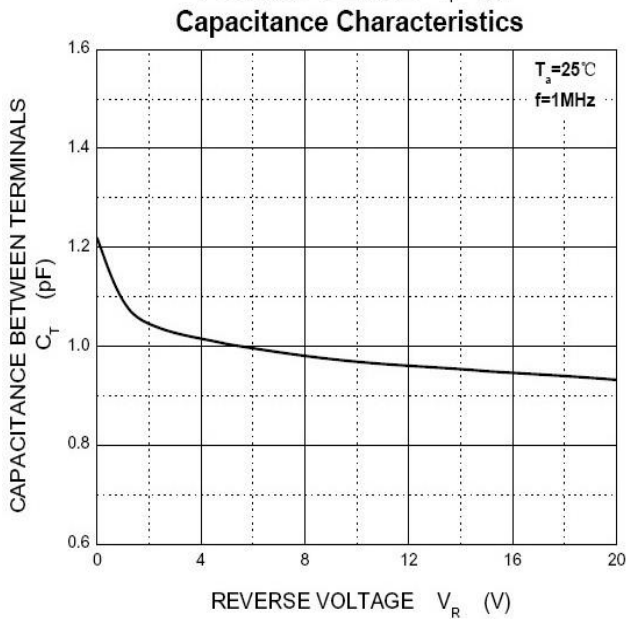
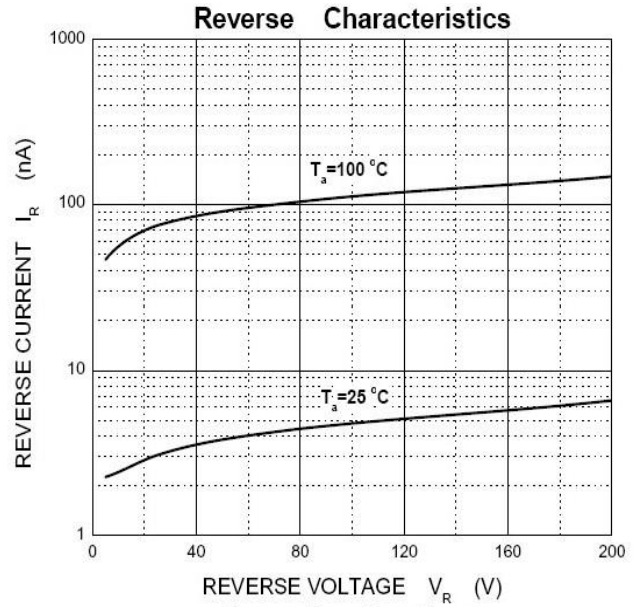
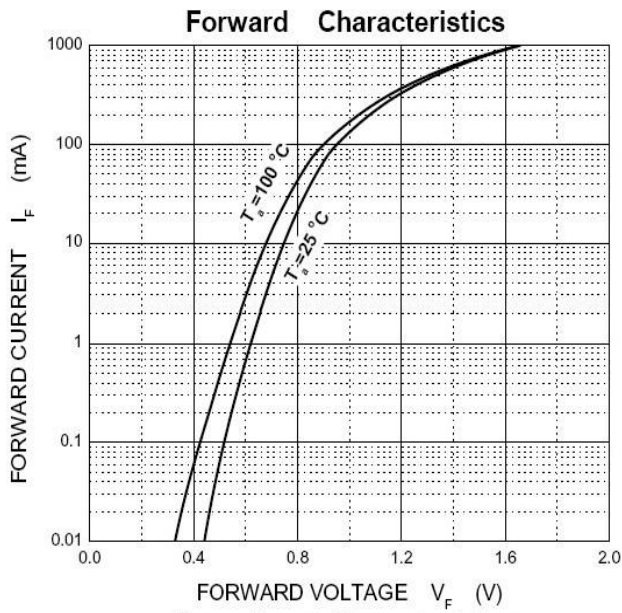
Valid provided that electrodes are kept at ambient temperature.

### Electr ical Characteristics (@ T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Limits		Unit
			Min	Max	
Reverse Voltage	V <sub>BR</sub>	IR=100uA	250		V
Reverse Leakage Current	I <sub>R</sub>	VR=200V		0.1	uA
Forward Voltage	V <sub>F</sub>	IF=100mA		1.00	V
		IF=200mA		1.25	
Reverse Recovery Time	T <sub>RR</sub>	IF= IR=30mA		50	nS
		RL=100Ω			
		IRR=0.1 X IR			
Capaci tance	C <sub>T</sub>	VR=0V, f=1MHZ		5	pF

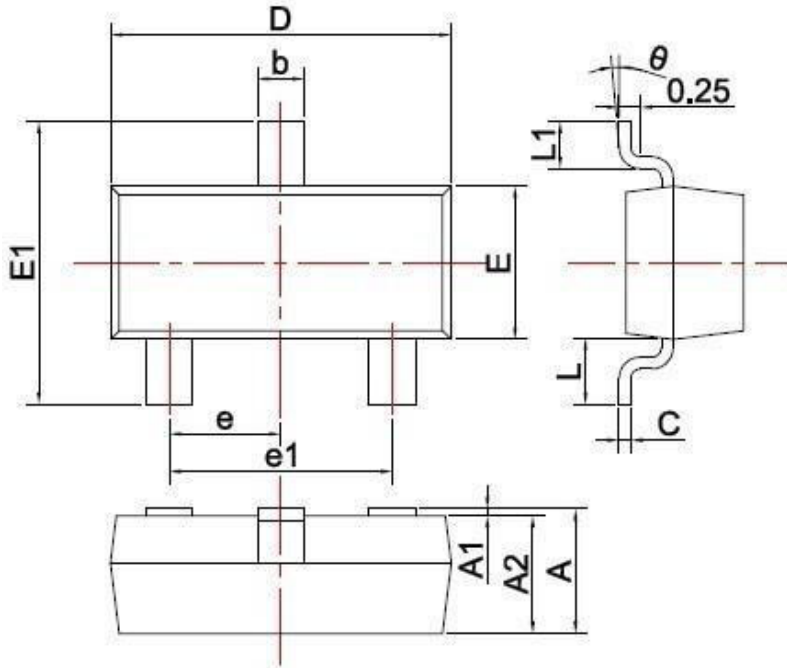
## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)



## Package Outline Dimensions

millimeters



SYMBOL	DIMENSIONS	
	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°

## Revision History

Document Version	Date of release	Discription of changes
Rev.A	2019.12.24	First issue

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