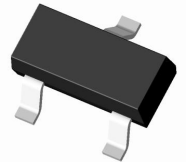**GOOD-ARK**

SOT -23 Plastic-Encapsulate Switching Diode

Features

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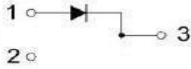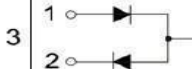- Low reverse leakage
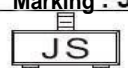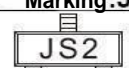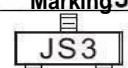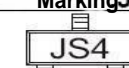- AEC-Q101 Qualified

Pb

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	MarkingJS4
JS	JS2	JS3	JS4

Maximum Ratings & Thermal Characteristics (@ T_A = 25°C unless otherwise specified)

Para meters	Symbol	V alue	Unit
Reverse Voltage	V_R	250	V
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Power Dissipation	Pd	225	mW
Forward continuous Current	I_{FM}	400	mA
Repetitive peak forward surge current	I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms; TA=25℃	I_{FSM}	2.5	A
Operating junction temperature	T_J	150	℃
Storage temperature range	Ts	-55-+150	℃
Thermal Resistance from Junction to Ambient	$R_{θJA}$	555	℃/W

Valid provided that electrodes are kept at ambient temperature.

Electr ical Characteristics (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Limits		Unit
			Min	Max	
Reverse Voltage	V_{BR}	IR=100uA	250		V
Reverse Leakage Current	I_R	VR=200V		0.1	uA
Forward Voltage	V_F	IF=100mA		1.00	V
		IF=200mA		1.25	
Reverse Recovery Time	T_{RR}	IF= IR=30mA		50	nS
		RL=100Ω			
		IRR=0.1 X IR			
Capaci tance	C_T	VR=0V, f=1MHZ		5	pF

Ratings and Characteristics Curves

(T_A = 25℃ unless otherwise noted)

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve
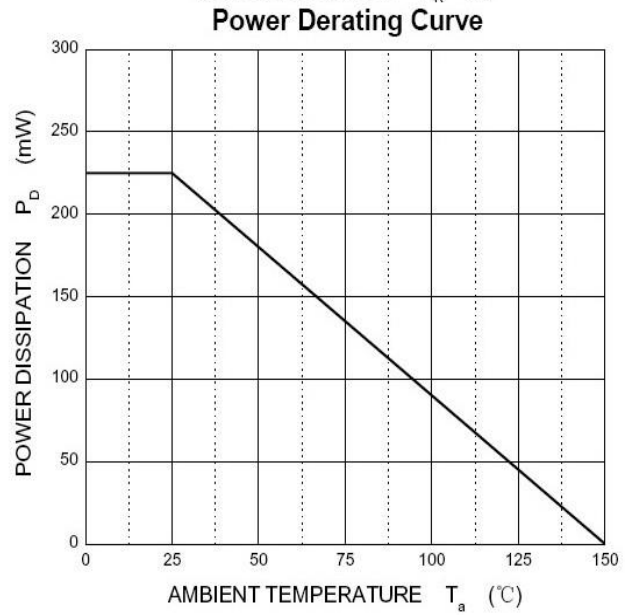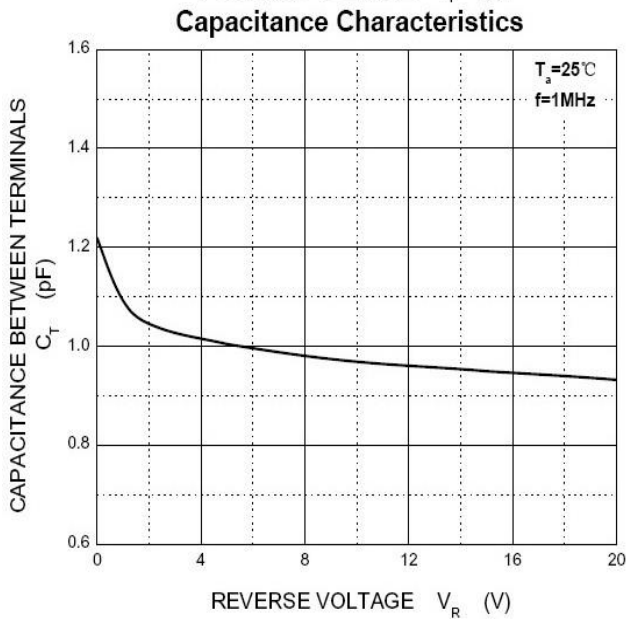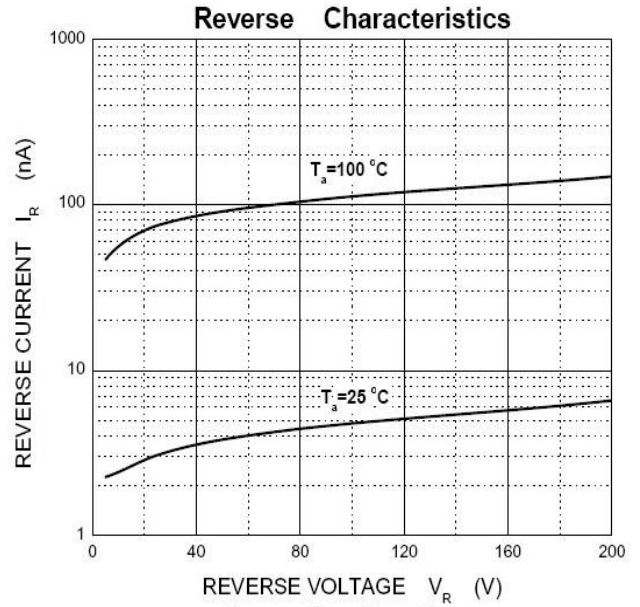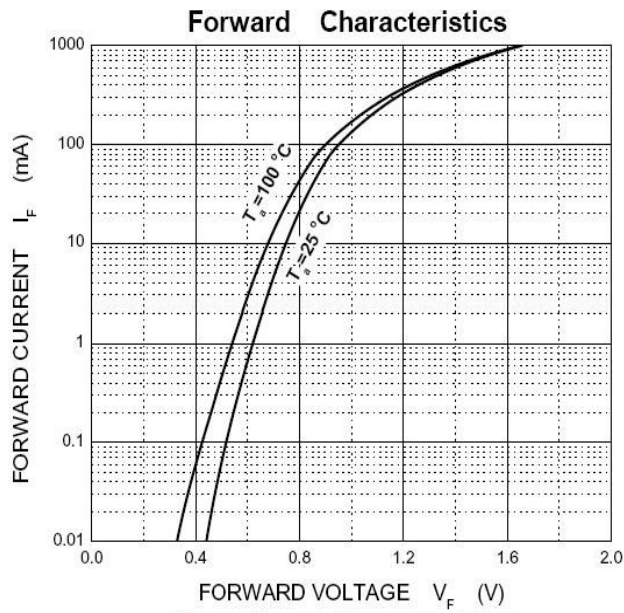
Package Outline Dimensions

in inches (millimeters)
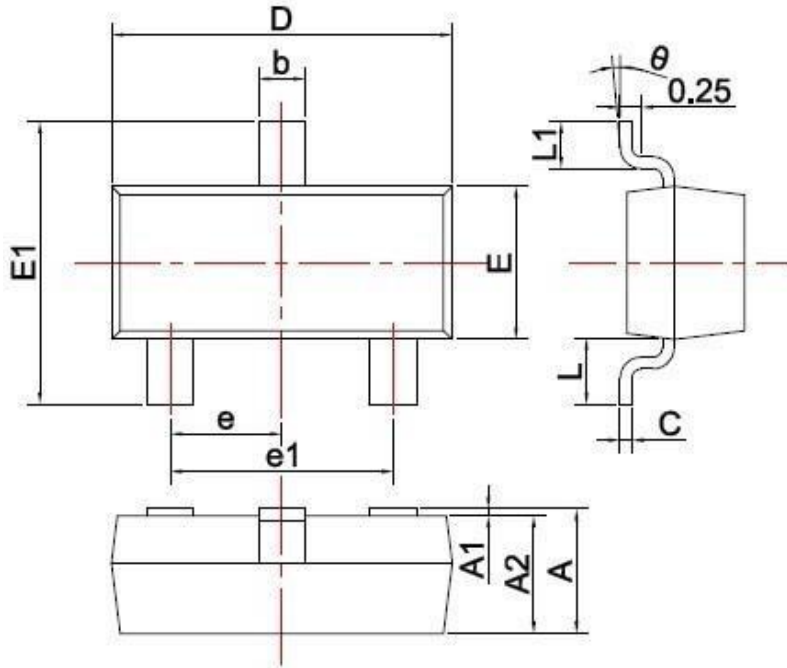
SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

Unit: mm

Revision History

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

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