

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





Marking:

SOT-23

Mechanical Data

• SOT-23 Small Outline Plastic Package

• Epoxy UL: 94V-0

• Mounting Position: Any

Pin definition

Epuivalent circuit



BAS21	BAS21A	BAS21C	BAS21S	
1 ○ → 3	1 - 3	1 ∘ ▶ 3	1 0 → 3	
2 0	2 ○ ◀	2 ○ ▶	2 ○ ◀	
MARKING: JS	MARKING:JS2	MARKING:JS3	MARKING:JS4	
		<u> </u>		
JS JS2		JS3	JS4	
H H			T T	

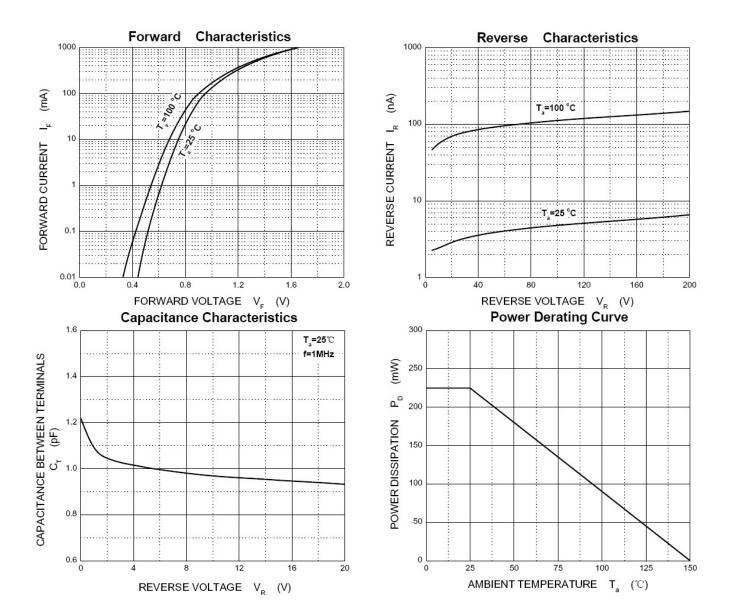
Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	Value	Unit	
Reverse Voltage	V _R	250	V	
Peak Repetitive Reverse Voltage	V_{RRM}	250	V	
Power Dissipation	P _D	225	mW	
Non-repetitive Peak Forward Current	I _{FM}	400	mA	
Repetitive peak forward surge current	I _{FRM}	625	mA	
Peak Forward Surge Current@tp=1us; TA=25°C	I _{FSM}	2.5	А	
Operating junction temperature range	T _J	150	°C	
Storage temperature range	T _{STG}	-55 to +150	°C	
Thermal Resistance from Junction to Ambient	Reja	555	°C/W	

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Limits		Unit	
			Min	Max		
Reverse Voltage	$V_{(BR)}$	I _R =100uA	250		V	
Forward Voltage	V _F	I _F =100mA		1.00	V	
Forward Voltage		I _F =200mA		1.25	V	
Reverse Leakage Current	I _R	VR=200V		0.1	uA	
Typical junction capacitance	CJ	VR=0V, f=1MHZ		5	pF	
Typical reverse recovery time	TRR	IF=IR=30mA RL=100Ω IRR=0.1 X IR		50	uS	



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

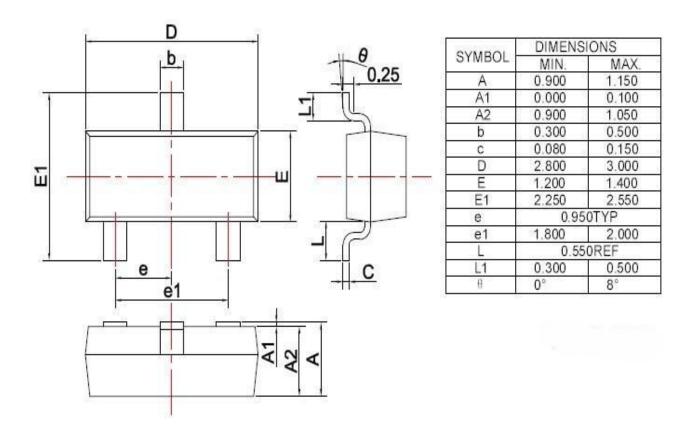






Package Outline Dimensions

millimeters



Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.05.26	First issue





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