

# 250mW SOD-323 Fast Switching Diode

### **Features**

- 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 250mW; Power Dissipation of 250mW
- High Stability and High Reliability
- Low reverse leakage

#### **Mechanical Data**

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Marking :A6 SOD-323

Maximum Ratings& Thermal Characteristics (T <sub>A</sub> =25°C unless otherwise noted)					
Parameters	Symbol	Value	Unit		
Reverse Voltage	V <sub>R</sub>	100	V		
Peak Reverse Voltage	V <sub>RRM</sub>	100	V		
Power Dissipation	PD	250	mW		
Operating junction temperature	TJ	150	°C		
Storage temperature range	Ts	-55-+150	°C		
Thermal Resistance from Junction to Ambient	R <sub>eja</sub>	500	°C <b>/W</b>		
Average Rectified Current	Ι <sub>ο</sub>	250	mA		
Peak Forward Surge Cu rrent @tp=1us; TA=25 $^\circ\!\!\mathbb{C}$	I <sub>FSM</sub>	2.0	А		

Valid provided that electrodes are kept at ambient temperature.

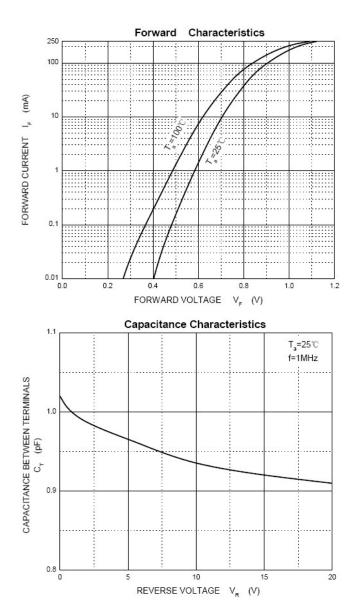
Electrical Characteristics (T <sub>A</sub> =25°C unless otherwise noted)					
Parameter	Symbols	Test Condition	Limits		11
			Min	Max	Unit
Reverse Voltage	V(BR)	IR=100uA	100		V
Reverse Leakage Current	lr	VR=25V		30	nA
		VR=75V		1	uA
		IF=1.0mA		0.715	
Forward Voltage	VF	IF=10mA		0.855	V
		IF=50mA		1.00	
		IF=150mA		1.25	
Reverse Recovery Time	Trr	$      IF = IR = 10mA, \\ Irr=0.1XIR \\ RL=100 \Omega $		4	nS
Capacitance	Cj	VR=0V, f=1MHZ		1.5	pF

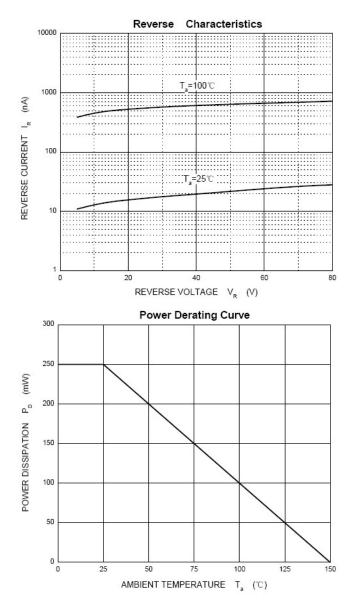


## BAS316 GOOD-ARK Electronics

### **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)

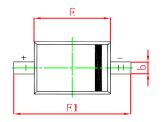


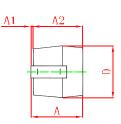


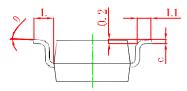


# Package Outline Dimensions

millimeters







Symbol	Min	in Max	
Α		1.000	
A1	0.000	0.100	
A2	0.800	0.900	
b	0.250	0.350	
C	0.080	0.150	
D	1.200	1.400	
E	1.600	1.800	
E1	2.500	2.700	
L	0.475REF		
L1	0.250	0.400	
θ	0°	8°	

# **Revision History**

Document Version	Date of release	Description of changes
Rev.A	2015.07.16	First issue



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